

**SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONE TECNICA
DOCUMENTACION TECNICA**

THOMSON

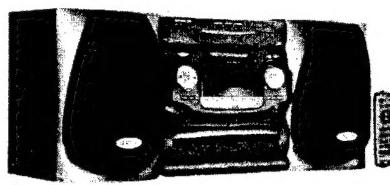
**ALTIMA 260
ALTIMA 360
ALTIMA 460**

Version (PC*) : A

*PC : The version code is indicated either in the battery compartment or on the back of the unit - *PC : Le code de version est indiqué dans le compartiment des piles ou au dos de l'appareil - PC : Version des Geräts wird im Batteriefach oder auf der Rückseite angegeben - Il codice della versione è indicato nello scompartimento delle batterie o sul retro dell'apparecchio - El código de la versión está indicado en el compartimiento de las pilas o en la parte trasera del aparato.



ALTIMA 260



ALTIMA 360/ALTIMA 460

**Technical data - Caractéristiques principales
Technische Daten - Dati tecnici - Características del aparato**

Type of set :	Two-in-one horizontal, combination Hifi/CD	279 mm	309 mm	359 mm	6,7 kg
Type d'appareil :	Ensemble compact stéréophonique Hifi/CD	278 mm	310 mm	370 mm	7,3 kg
Geräteart :	2er Horizontal Kompaktanlage Hifi/CD				
Tipo de aparato :	Equipo compacto estereofónico Hifi/CD				
Tipo d'apparecchio :	Insieme compatto stereofonico Hifi/CD				
Power supply :		Nominal output power :			
Alimentation :	230 V ~ - 50 Hz	Puissance nominale de sortie :	2x16 W (rms)		
Stromversorgung :		Nennausgangsleistung :			
Alimentazione :		Potenza nominale di uscita :	2x40 W (rms)		
Alimentación :		Potencia nominal de salida :			
	Signal to noise ratio : Rapport signal / bruit : Geräuschspannungsabstand : 55 dB	Sensitivity : Sensibilité : FM - MF : Empfindlichkeit : MW - PO : Sensibilità : LW - GO : Sensibilidad : 4 µV (S/N = 26 dB) 800 µV/m (S/N = 20 dB) 2000 µV/m (S/N = 20 dB)			
	Relación señal / ruido : Relación señal / ruido : Rapporto segnale / disturbo :				
	Frequency response : Courbe de réponse : Frequenzgang : 125 Hz - 10 kHz (-5 dB)	Signal to noise ratio : Rapport signal / bruit : Geräuschspannungsabstand : 44 dB			
	Curva di risposta : Curva de respuesta : Wow and flutter : Fluctuations : Gleichlauf : 0,25 %	Rapporto segnale / disturbo : Relación señal / ruido : → 4,76 cm/S <> 44 dB			
	Fluttuazioni : Fluctuaciones : Velocità di rotazione del disco : Velocidad de rotación del disco : DAD	C60 : 170 S			
Total harmonic distortion :		Frequency response : Courbe de réponse : Frequenzgang : 40 Hz - 16 kHz (-4 dB)			
Distorsion harmonique :		Curva di risposta : Curva de respuesta : Signal to noise ratio : Rapport signal / bruit : Geräuschspannungsabstand : 65 dB			
Klirrfaktor :	0,5 %	Curva de respuesta : Relación señal / ruido : Signal to noise ratio : Rapport signal / bruit : Geräuschspannungsabstand : 65 dB			
Distorsione armonica :					
Distorsión armónica :					



**WARNING : Before servicing this set read the safety recommendations.
ATTENTION : Avant toute intervention sur cet appareil, lire les recommandations de sécurité.
ACHTUNG : Bei jedem Eingriff in das Gerät, die Sicherheitsvorschriften beachten.
ATTENZIONE : Prima di intervenire sull'apparecchio, leggere le norme di sicurezza.
IMPORTANTE : Antes de cualquier intervención, leer las recomendaciones de seguridad.**



CLASS 1 LASER PRODUCT
APPAREIL A LASER DE CLASSE 1
LASER KLASSE 1
APARATO CON LASER DE CLASE 1
APPARECCHIO CON LASER DI CLASSE 1

DANGER :

Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.

ATTENTION :

Le rayon laser est invisible. Eviter l'exposition directe lors de la maintenance.

VORSICHT BEI REPARATUREN :

Bei geöffneter Schublade und Defekt der Sicherheitsvorrichtungen besteht die Gefahr unsichtbaren Laserlichts. Niemals direkt in den Laserstrahl sehen.

ATTENZIONE :

Il raggio laser è invisibile. Evitare l'esposizione diretta durante la manutenzione.

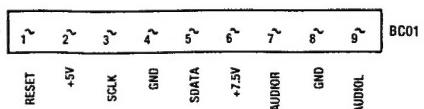
IMPORTANTE :

El rayo laser es invisible. Evitar la exposición directa en el momento del mantenimiento.

DIGITAL PROCESSING SCHEMATIC DIAGRAM - SCHEMA DU TRAITEMENT DIGITAL - SCHALTBILD DIGITALVERARBEITUNG - SCHEMA ELABORAZIONE DIGITALE - ESQUEMA DEL TRATAMIENTO DIGITAL

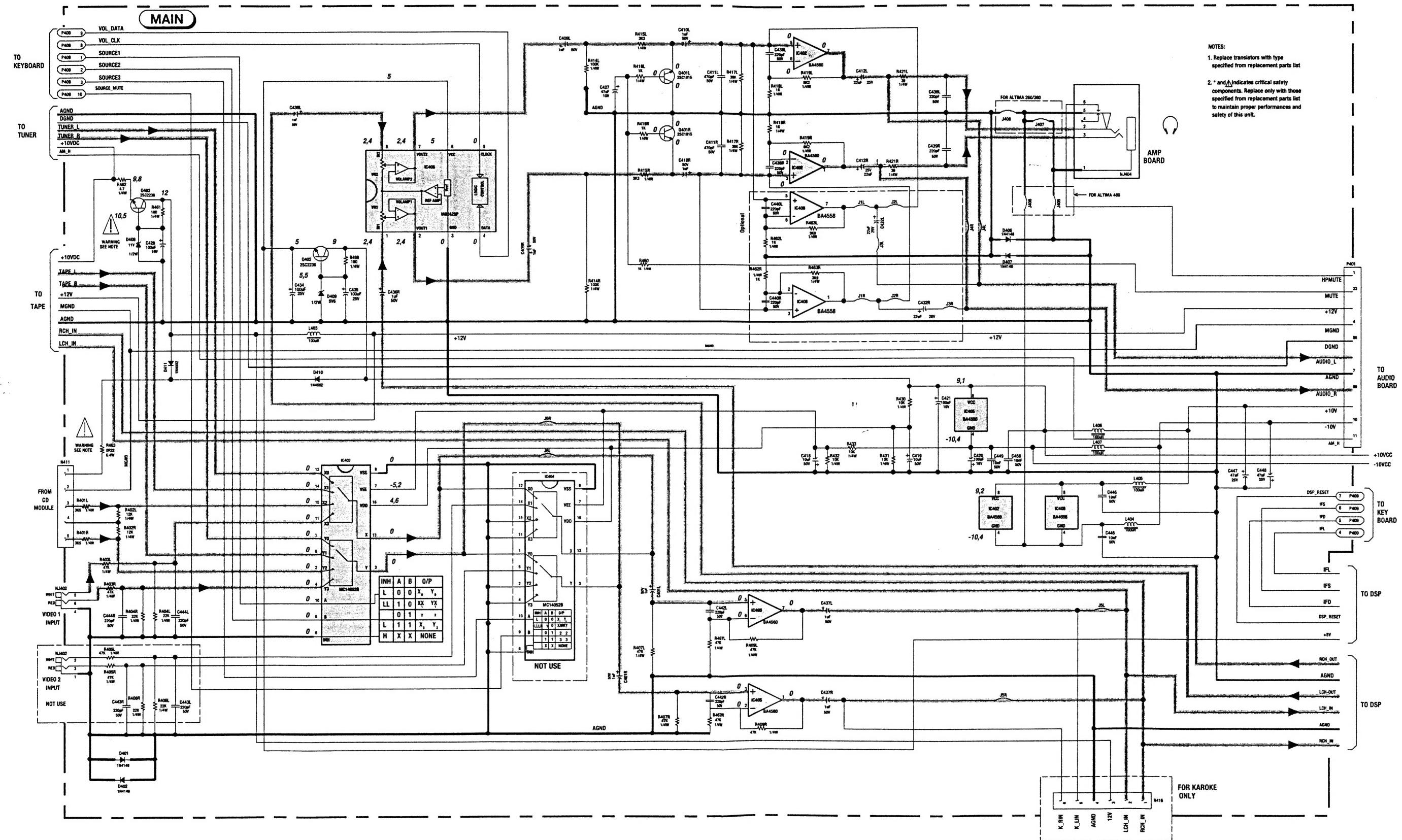
The complete Digital Processing Module is available from A. S. S. under Part Number :
En SAV, l'ensemble du module traitement digital est géré sous le code :
Die Service Bestell-Nr. für das Modul "Digital Processing kompl." ist :
Il codice del modulo completo di elaborazione digitale è :
En postventa, el modulo completo tratamiento digital lleva el código :

105 428 80

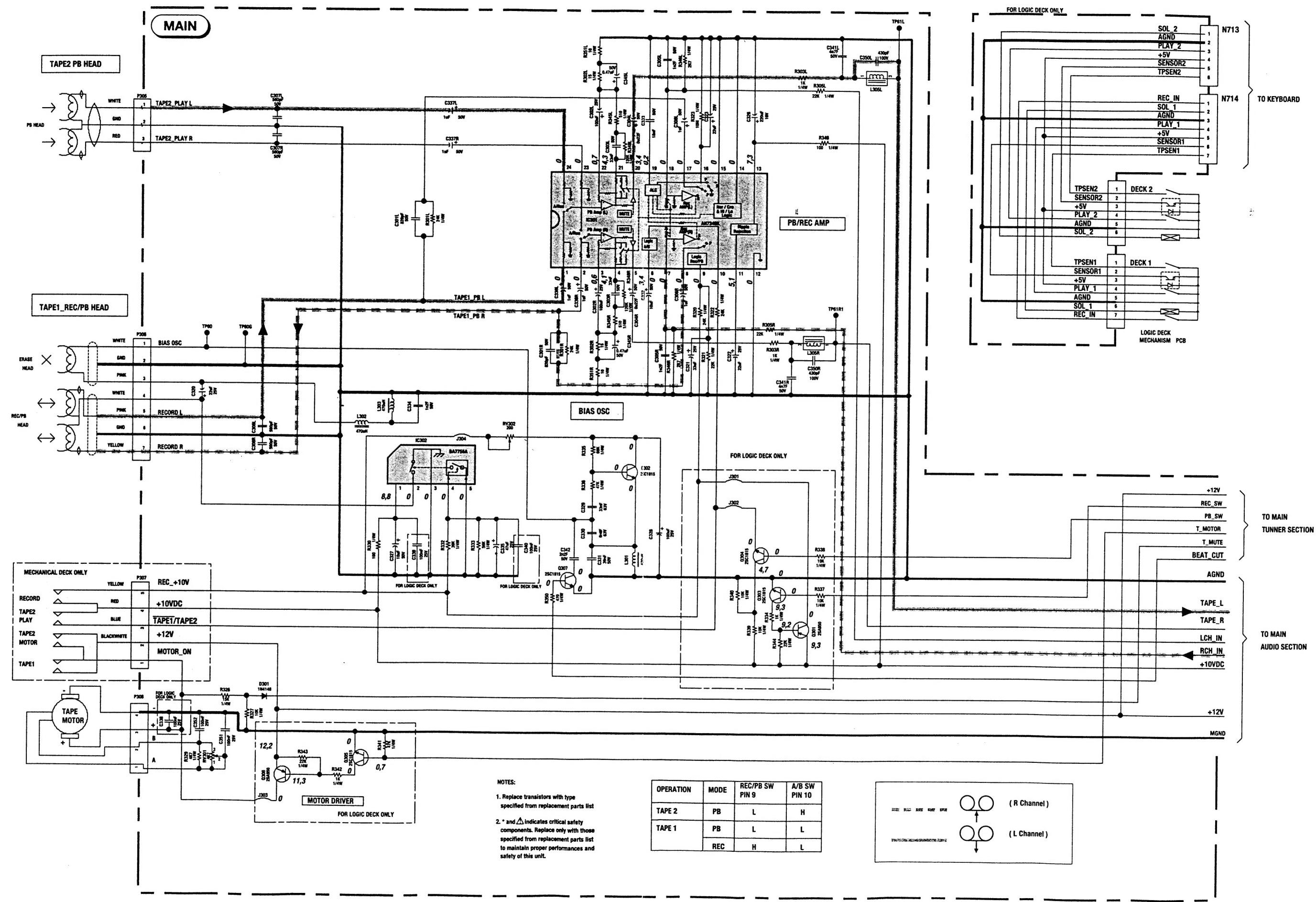


MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - GRUNDPLATTE SCHALTBILD - SCHEMA PIASTRA PRINCIPALE - ESQUEMA DE LA PLATINA PRINCIPAL

(AUDIO PART)



MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - GRUNDPLATTE SCHALTBILD - SCHEMA PIASTRA PRINCIPALE - ESQUEMA DE LA PLATINA PRINCIPAL
(TAPE PART)



ADJUSTMENTS	REGLAGES	EINSTELLUNGEN	REGOLAZIONE	AJUSTES
1 Tape tension Tension de bande Bandzug Tensione del nastro Tensión de la cinta				→ 40 g / cm < M < 60 g / cm << ◀ ▶ >> 80 g / cm < M < 150 g / cm
2 Azimuth adjustment Réglage d'azimut Tonkopfeinstellung Regolazione azimut Ajuste de azimut ○○ 1/A ○○ 2/B	 $f = 12,5 \text{ kHz}$			$\varphi_R = \varphi_L$
3 Azimuth adjustment Réglage d'azimut Tonkopfeinstellung Regolazione azimut Ajuste de azimut ○○ 1/A	 $f = 12,5 \text{ kHz}$			$\varphi_R = \varphi_L$
4 Tape speed Vitesse de défillement Bandgeschwindigkeit Velocità del nastro Velocidad de la cinta	 $f = 3 \text{ kHz}$	 ○○ 1/A ○○ 2/B RV301		$f = 3 \text{ kHz} \pm 90 \text{ Hz}$
5 Bias adjutment Courant de prémagntisation Vormagnetisierung Corrente di premagnetizzazione Corriente de premagnetización	 A/1	 RV302		$V = 24,5 \text{ V} \pm 1 \text{ V}$ $f = 76 \text{ kHz} \pm 5 \text{ kHz}$
6 Altima 260 Record bias leakage Réjecteur prémagntisation Abgleich Sperrkreise Vormagnetisierungsfrequenz Reiettore corrente di premagnetizzazione Trampa corriente de premagnetización	 A/1	L305L L305R		V Min.
7 Altima 360 / Altima 460 Record bias leakage Réjecteur prémagntisation Abgleich Sperrkreise Vormagnetisierungsfrequenz Reiettore corrente di premagnetizzazione Trampa corriente de premagnetización	 A/1 B/2	L305L L305R		V Min.

ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES

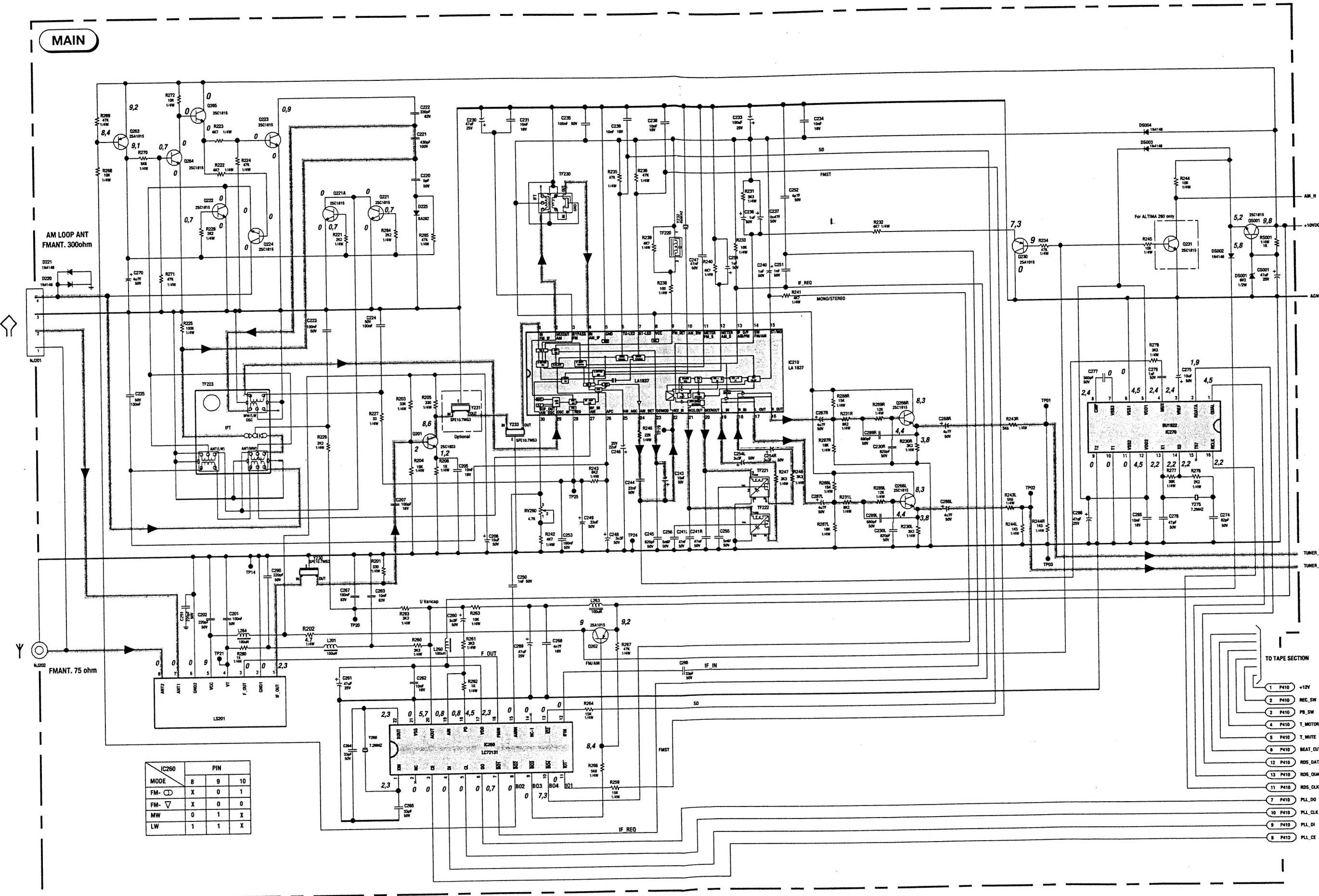
AM alignment								
MW	1			522 kHz	522 kHz		TP20 V = 1,5 V ± 0,5V	
	2	Ve > 1000 µV/m		1620 kHz	1620 kHz		TP20 V = 7,2 V ± 0,5V	
LW	3			150 kHz	150 kHz		TP20 V = 1,2 V ± 0,4V	
	4	Ve > 2500 µV/m		283 kHz	283 kHz		TP20 V = 6 V ± 0,5V	

FM alignment								
FM	1		Δf = 22,5 kHz f = 400 Hz 10 µV	87,5 MHz	87,5 MHz		TP21 V = 2V ± 0,5V	
				108 MHz	108 MHz		V = 7 V ± 0,6V	

FM Auto stop alignment								
1		Ve = 45 µV		98 MHz	98 MHz	TF 220	TP25 R243 IC210 (26)	V = 0 V ± 0,2 V
2		Ve = 20 µV		98 MHz	98 MHz	RV 290	IC210 (6)	V = 0,6 V ± 0,2 V
3					98,5 MHz		IC210 (6)	V > 5V

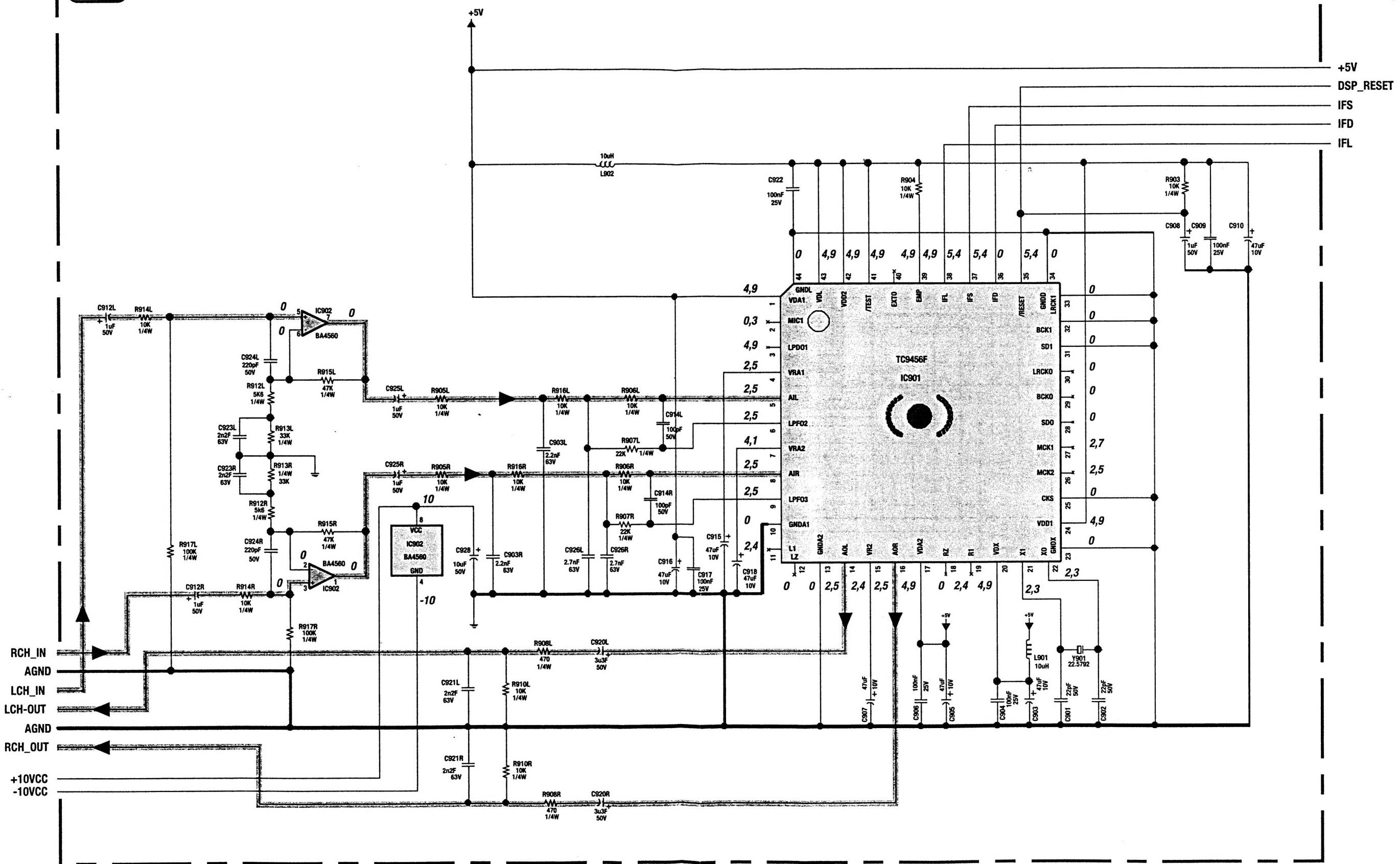
IC210	FM	AM		FM	AM		FM	AM
1	3,6	3,6	11	3,5	0	21	3,3	3,3
2	8,4	8,6	12	0	2,3	22	2,9	2,9
3	3,6	8,6	13	0,2	0,2	23	3,7	3
4	3,6	3,6	14	7,3	4,4	24	0	1,2
5	0	0	15	7,3	7,4	25	0	1,1
6	0	0	16	4,3	4,3	26	3,5	3,6
7	8,4	8,5	17	4,3	4,3	27	3,5	3,6
8	8,4	8,6	18	4,3	4,3	28	3,7	3,7
9	8,4	8,6	19	4,3	4,3	29	3,7	3,7
10	1,3	1,3	20	3,3	3,3	30	2,2	2

MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - GRUNDPLATTE SCHALTBILD - SCHEMA PIASTRA PRINCIPALE - ESQUEMA DE LA PLATINA PRINCIPAL (TUNER PART)

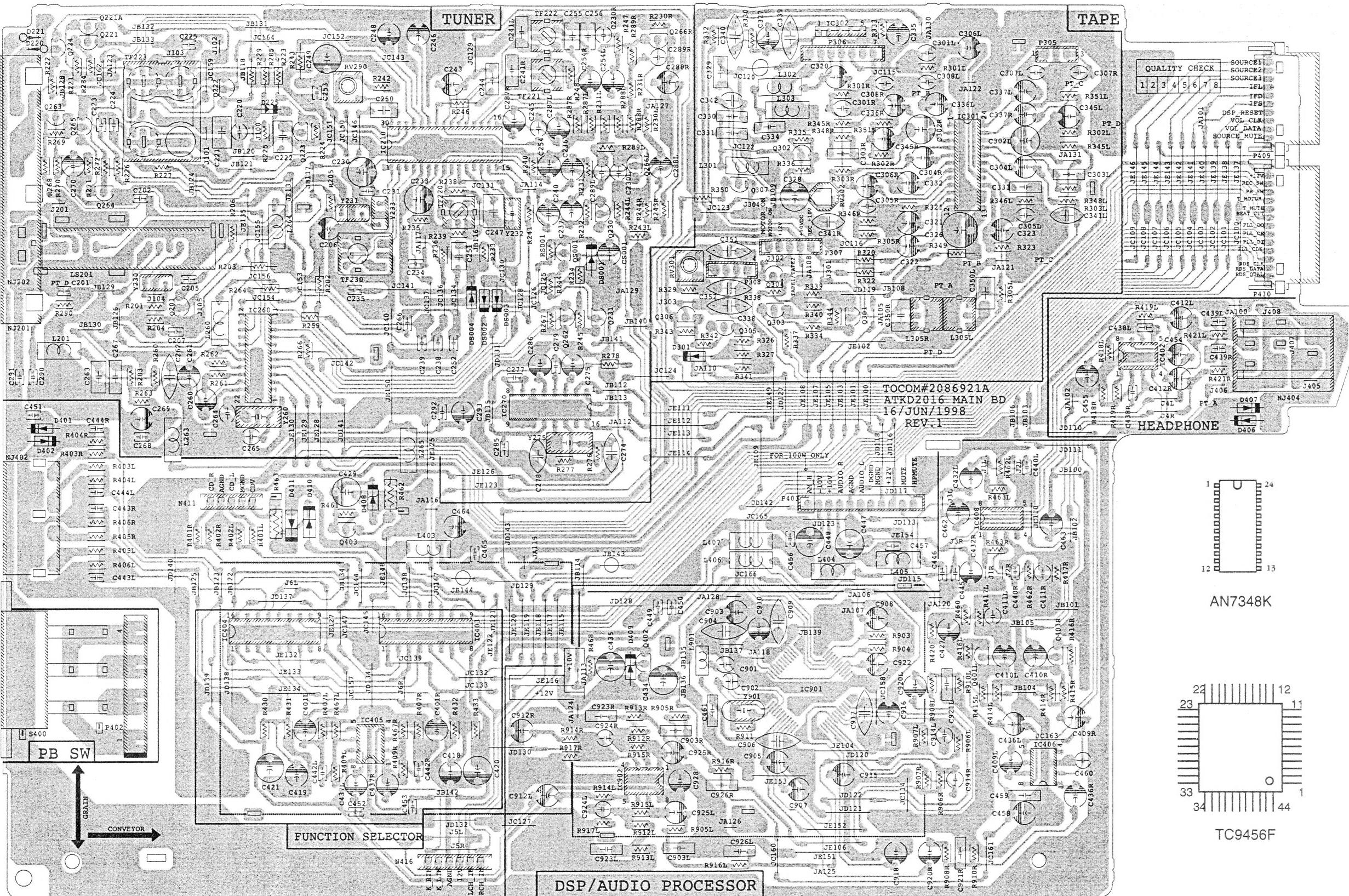


(DIGITAL SOUND PROCESSOR PART)

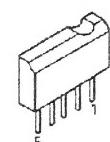
MAIN



Main P.C.B.
Platine principale
Grundplatte
Piastra principale
Platina principal

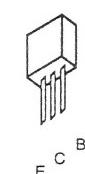


Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes

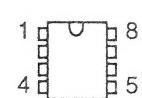


BA7755A

2SA1015
2SA950
2SC1815
2SC2120
2SC2236



MC14052B
BU1922

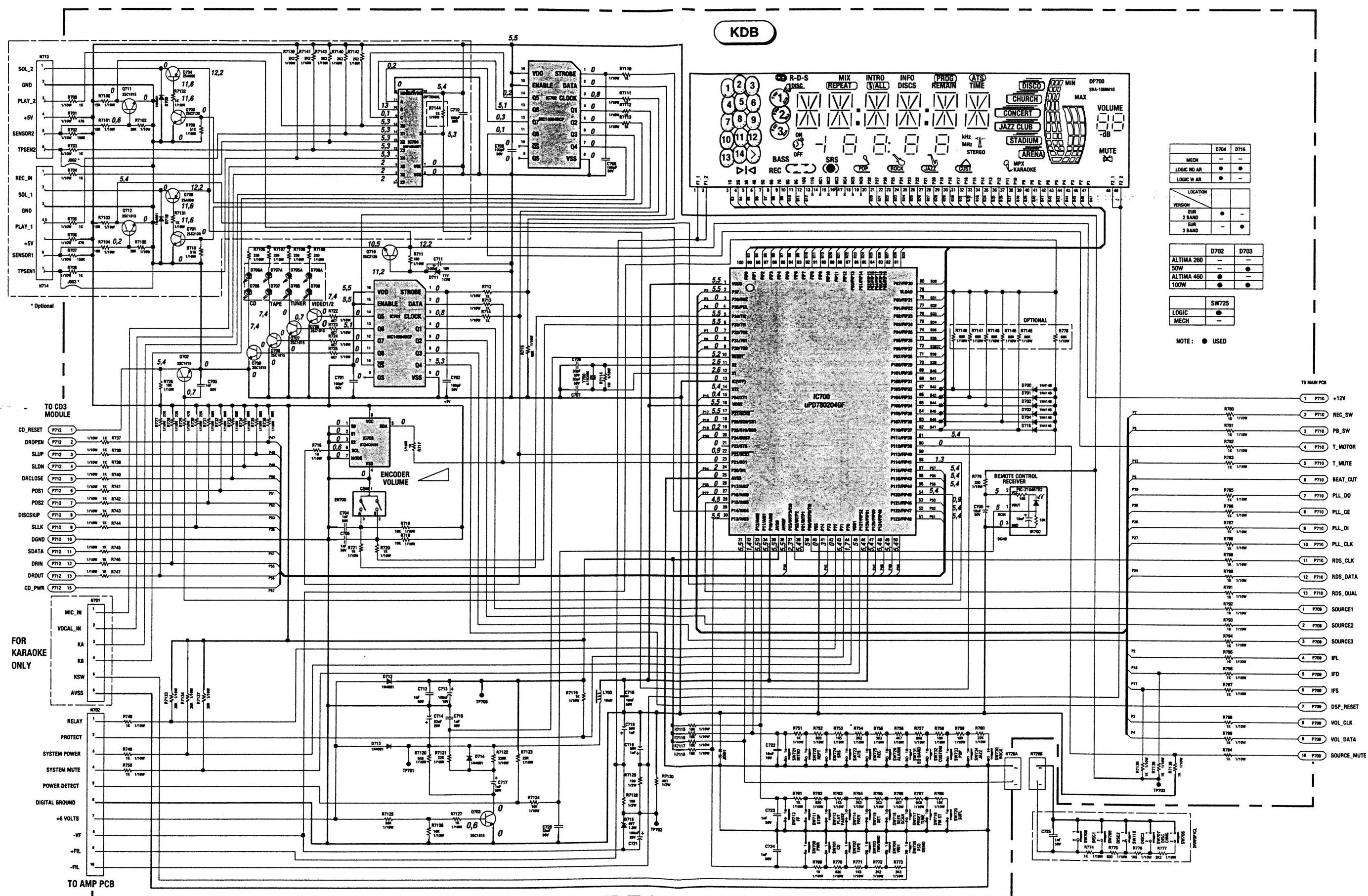


M62429
BA4560
BA4552

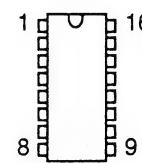
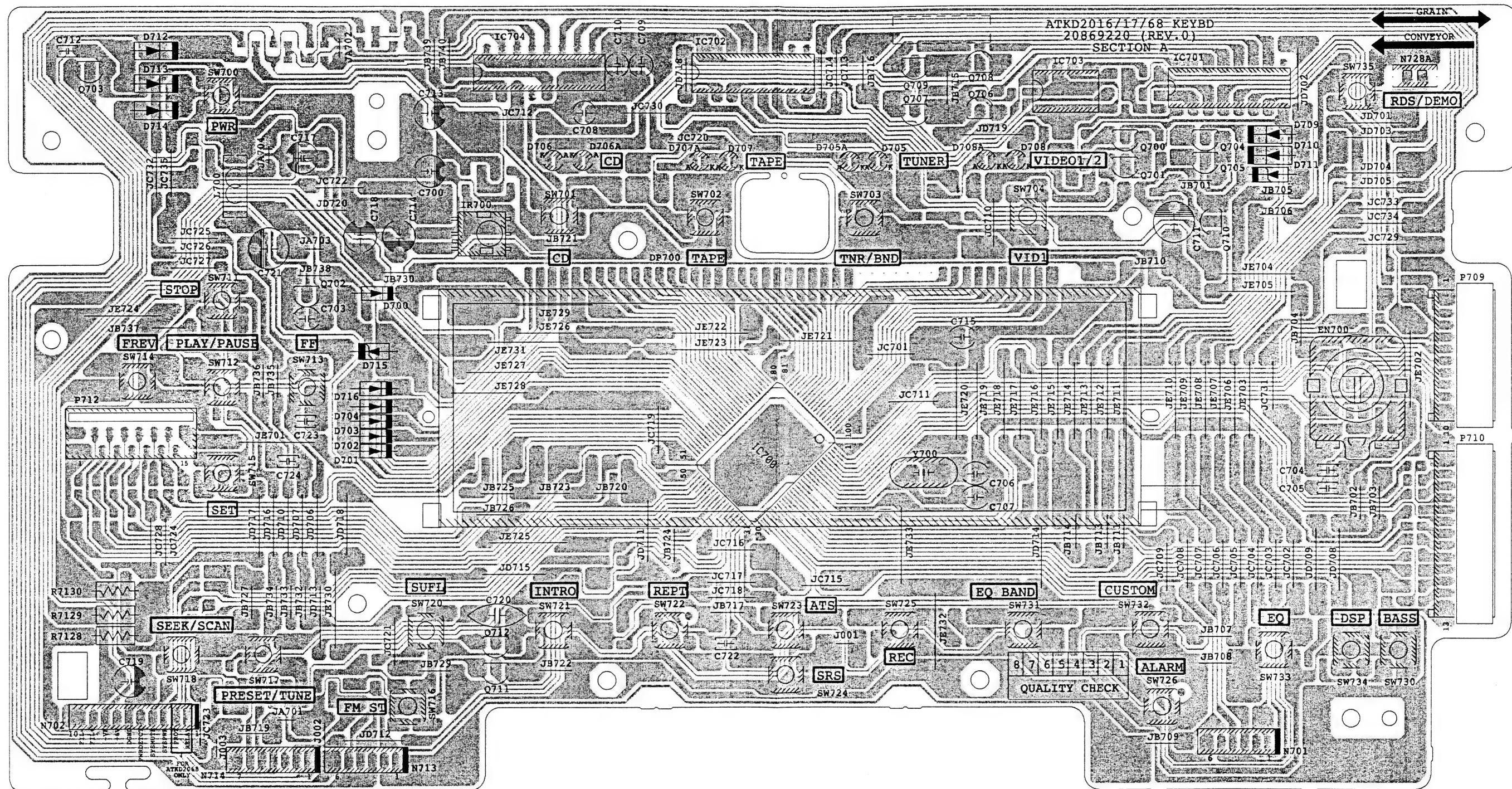
ATKD2016/ATKD2017/ATKD2068

First issue 10/98

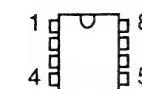
CONTROL / DISPLAY SCHEMATIC DIAGRAM - SCHEMA COMMANDES / AFFICHEUR - BEDIENTEIL / ANZEIGE SCHALTBILD - SCHEMA COMANDI / INDICATORE - ESQUEMA MANDOS / INDICADOR



Controls / display P.C.B.
 Platine commandes / afficheurs
 Ltpl. Bedienteil / Anzeige
 Piastra comandi / indicatore
 Platina de mandos / indicadores



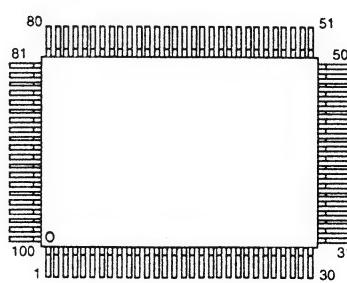
MC14094BCP



ST24C01B1

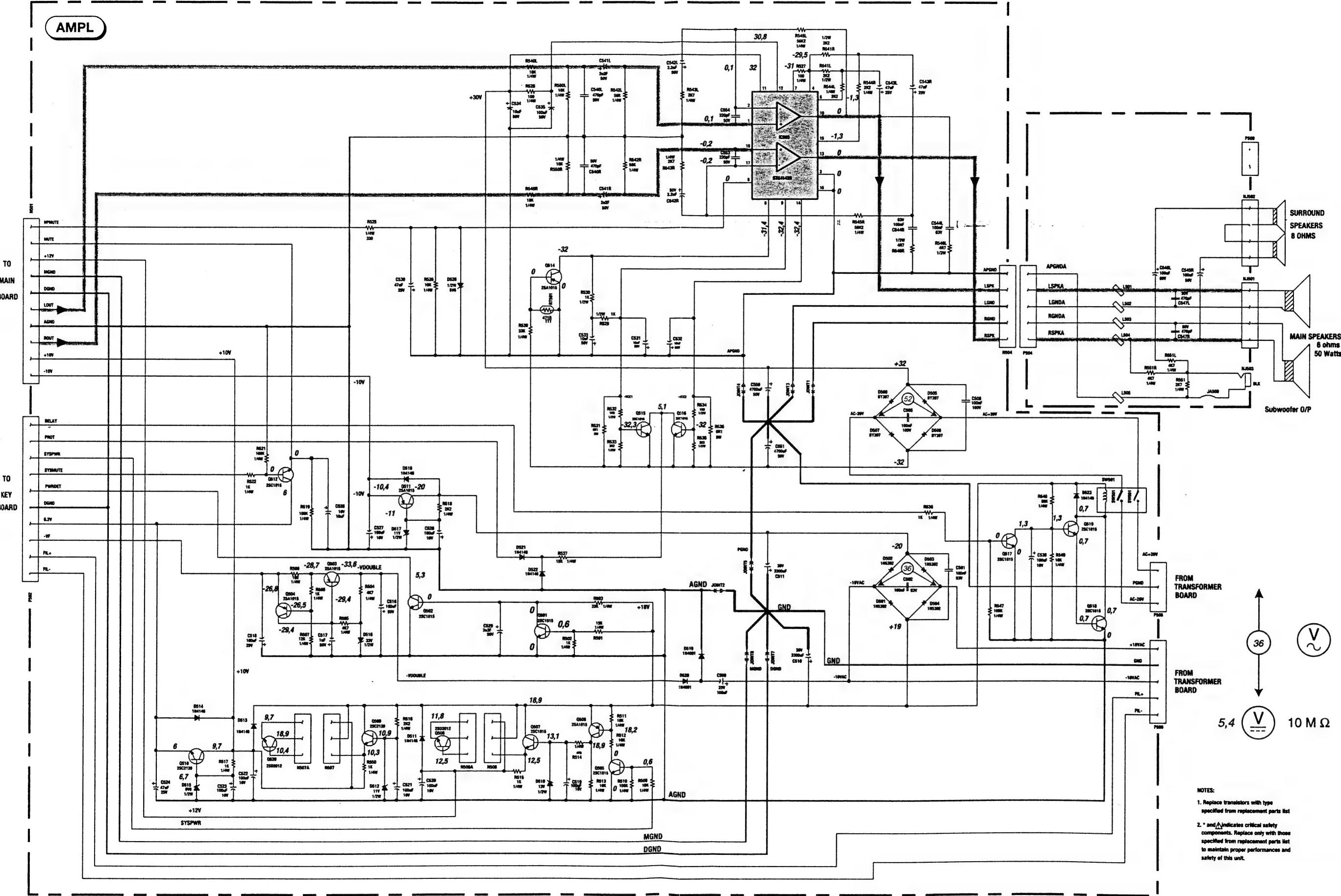


2SA950
 2SC1815
 2SC2120



UPD 780204GF

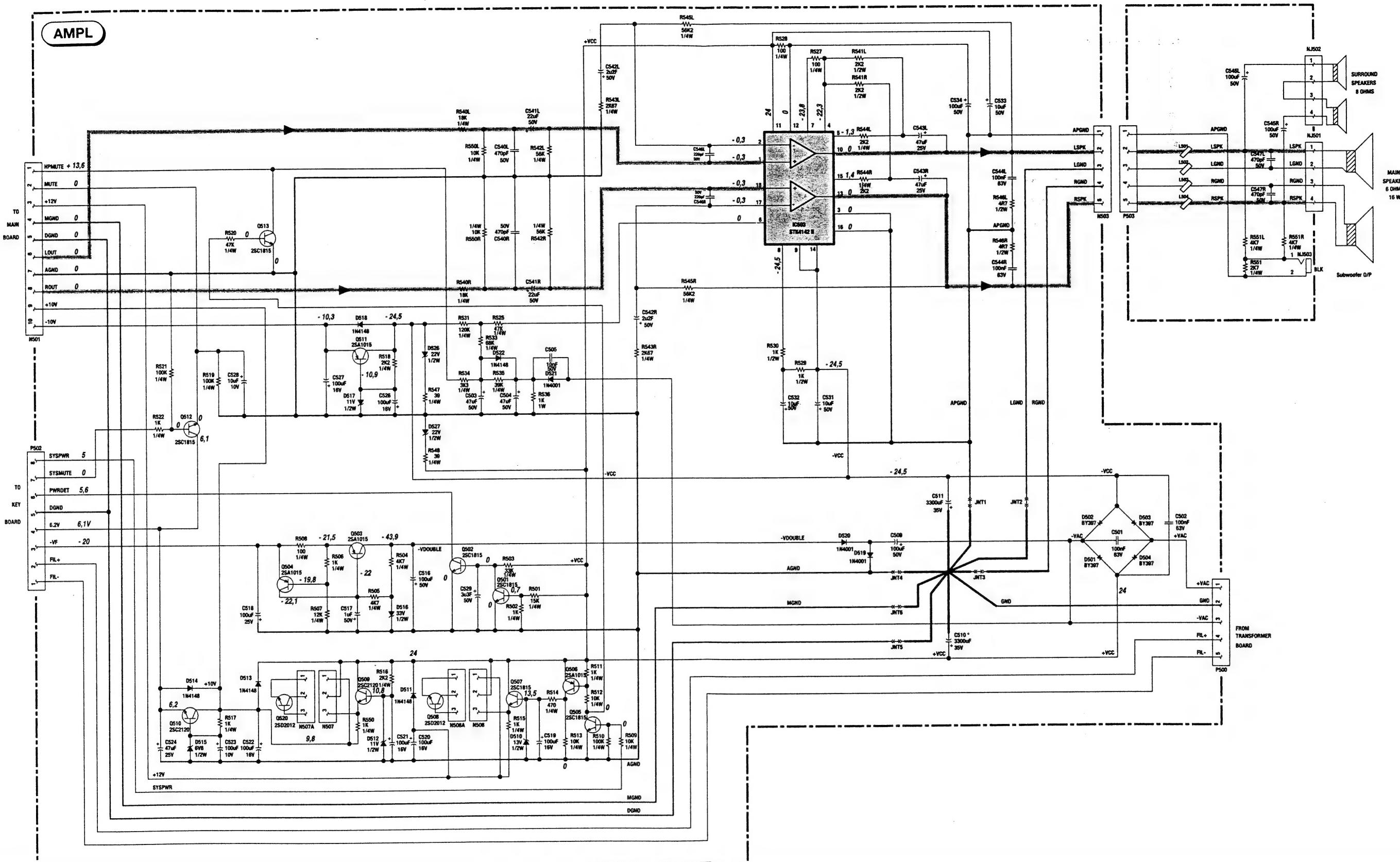
AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD ENDVERSTÄRKER - SCHEMA AMPLIFICATORE - ESQUEMA DEL AMPLIFICADOR (ALTIMA 460)



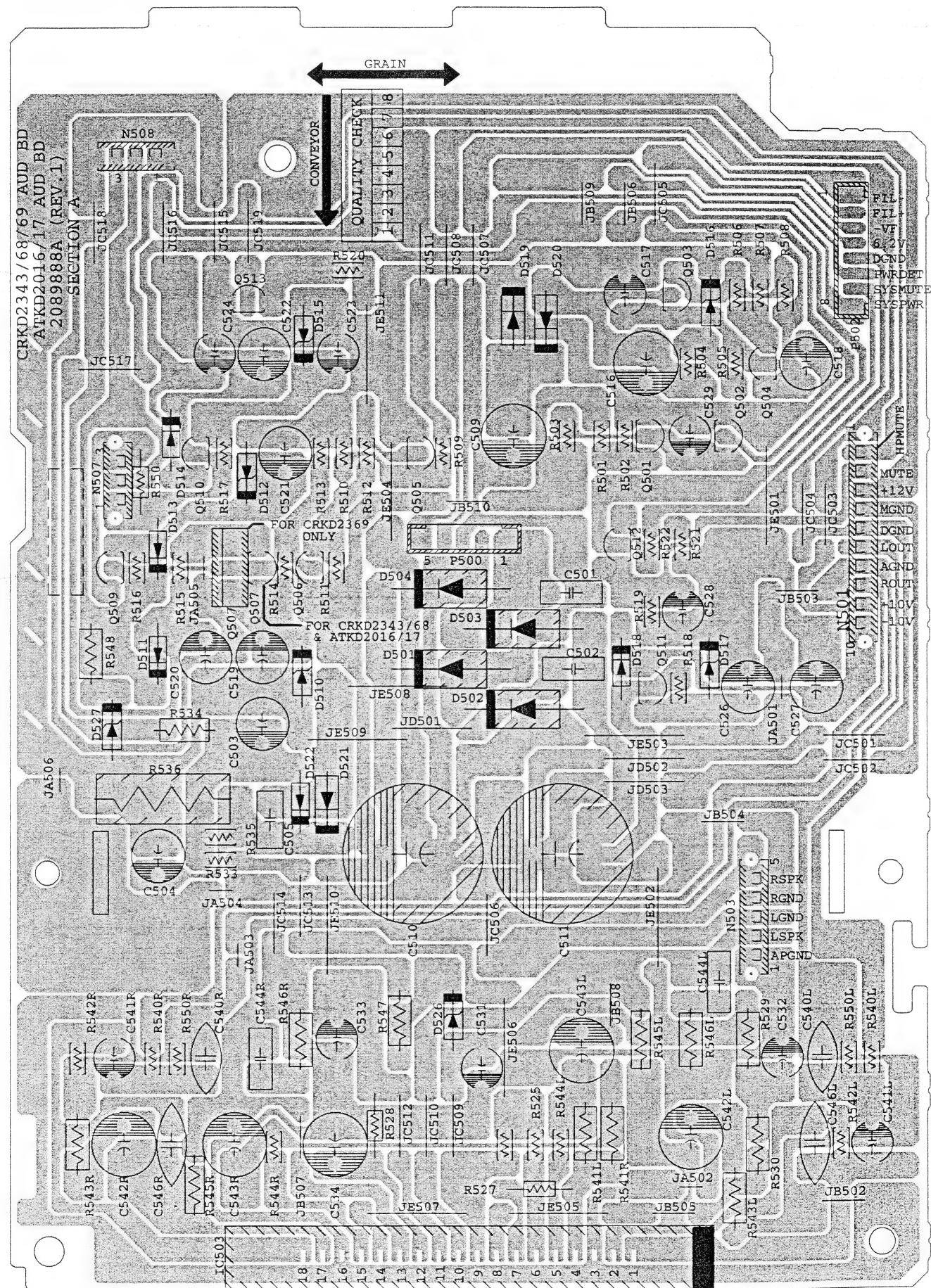
10

- Replace transistors with type specified from replacement parts list * and AIndicates critical safety components. Replace only with those specified from replacement parts list to maintain proper performances and safety of this unit.

**AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD ENDVERSTÄRKER - SCHEMA AMPLIFICATORE - ESQUEMA DEL AMPLIFICADOR
(ALTIMA 260/ALTIMA 360)**

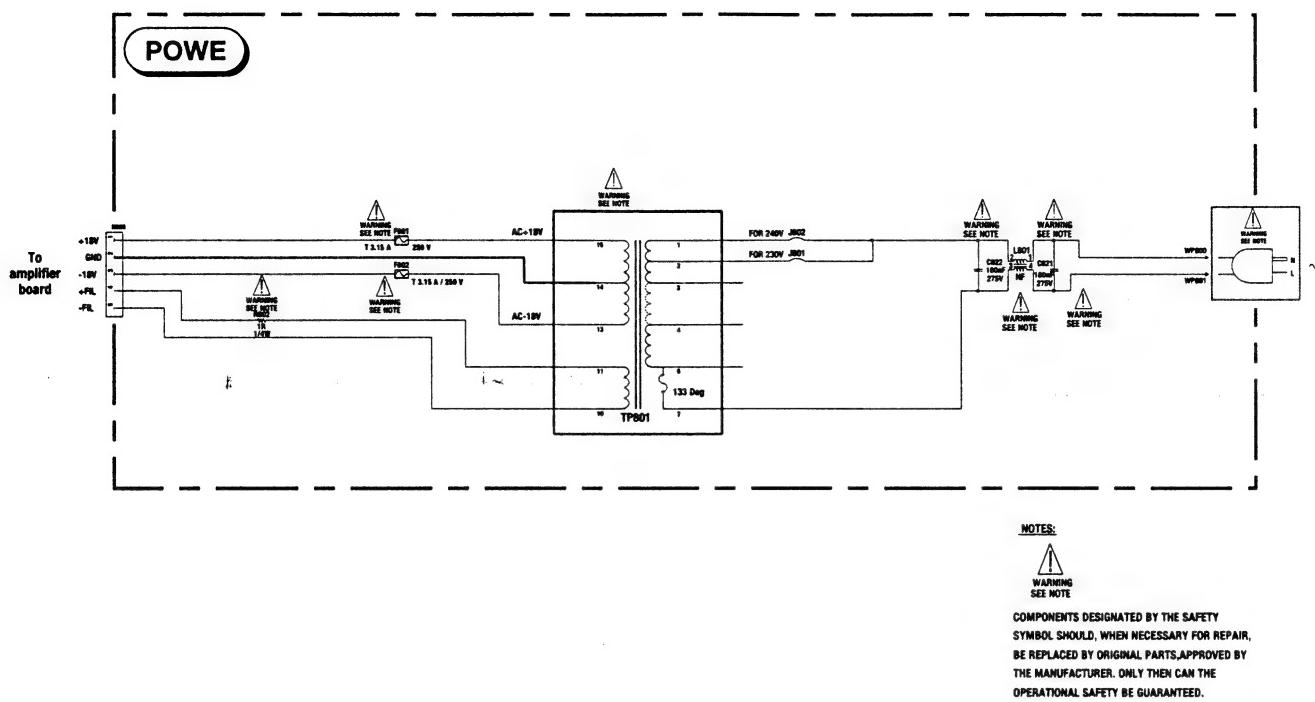


**Amplifier P.C.B.
Platine amplificateur
Ltpl. Endverstärker
Piastra amplificatore
Platina amplificador**

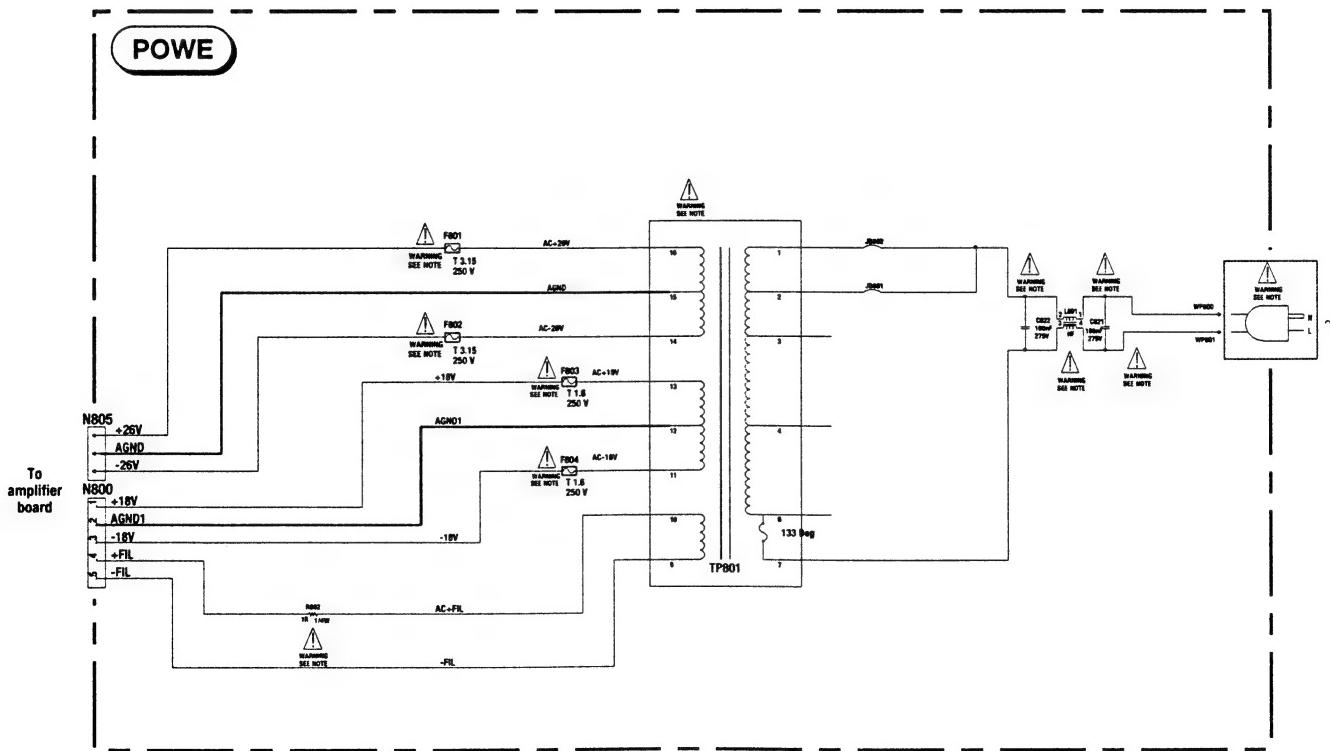


POWER SUPPLY SCHEMATIC DIAGRAM - SCHEMA DE L'ALIMENTATION - SCHALTBILD NETZTEIL - SCHEMA ALIMENTAZIONE - ESQUEMA DE LA ALIMENTACIÓN

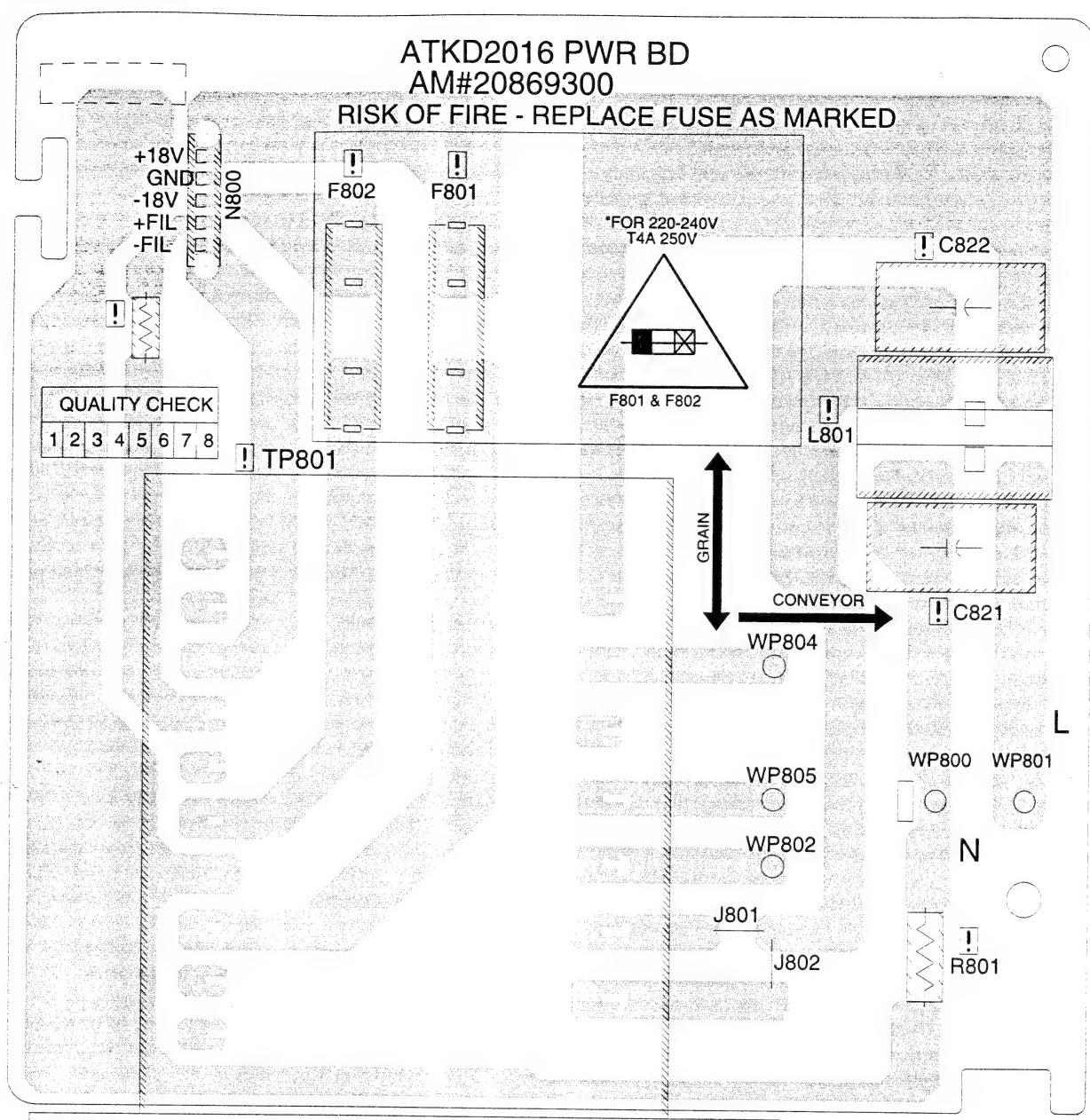
ALTIMA 260/ALTIMA 360



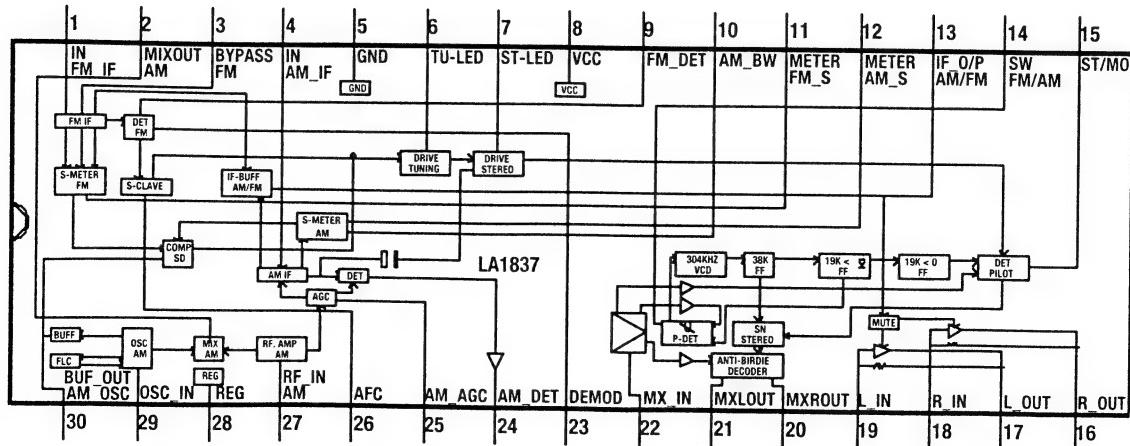
ALTIMA 460



Power supply P.C.B.
Platine alimentation
Ltpl. Netzteil
Piastre alimentazione
Platina alimentación



IC 210 LA1837



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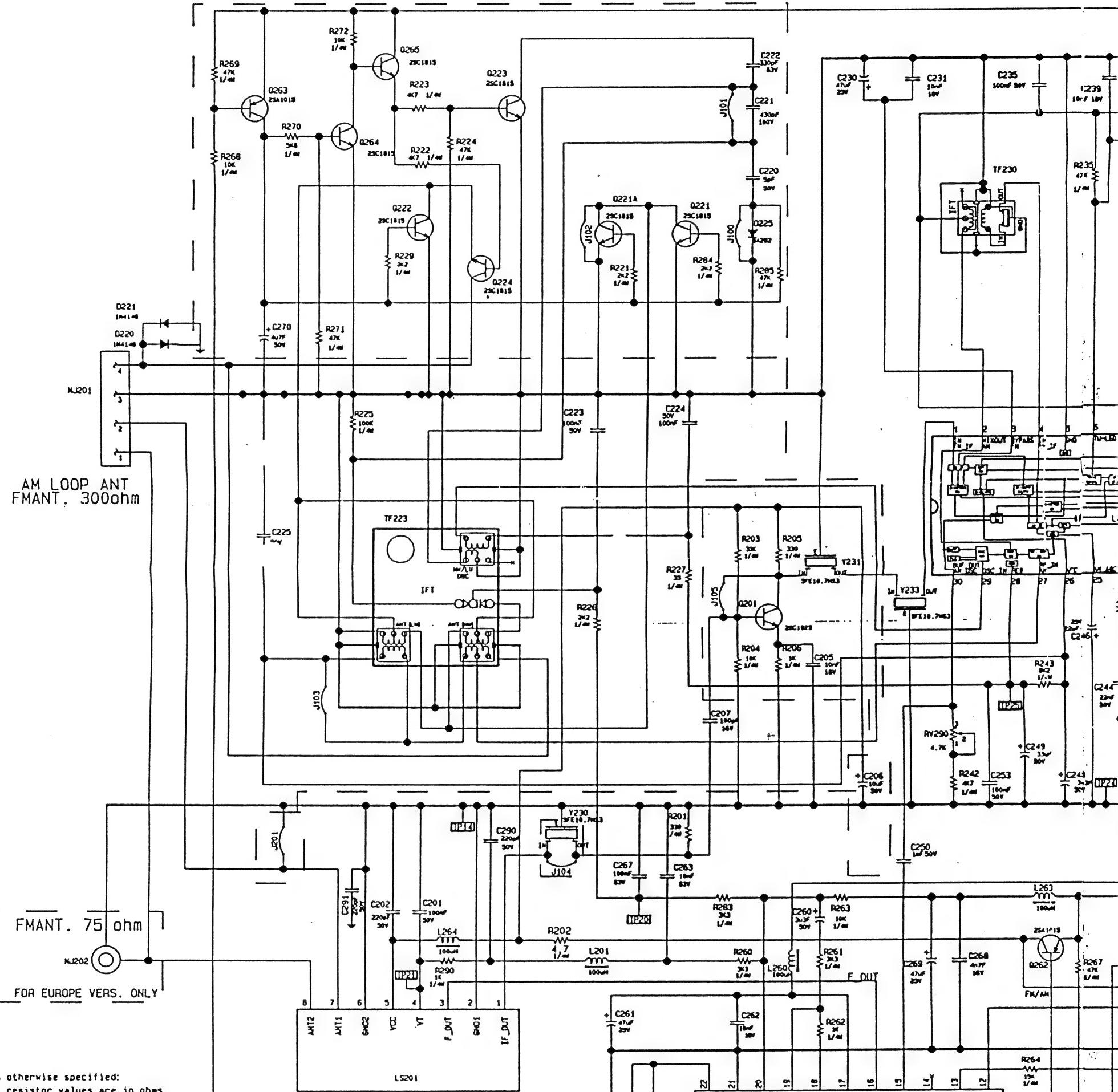
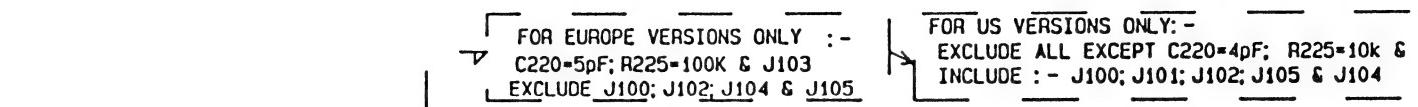
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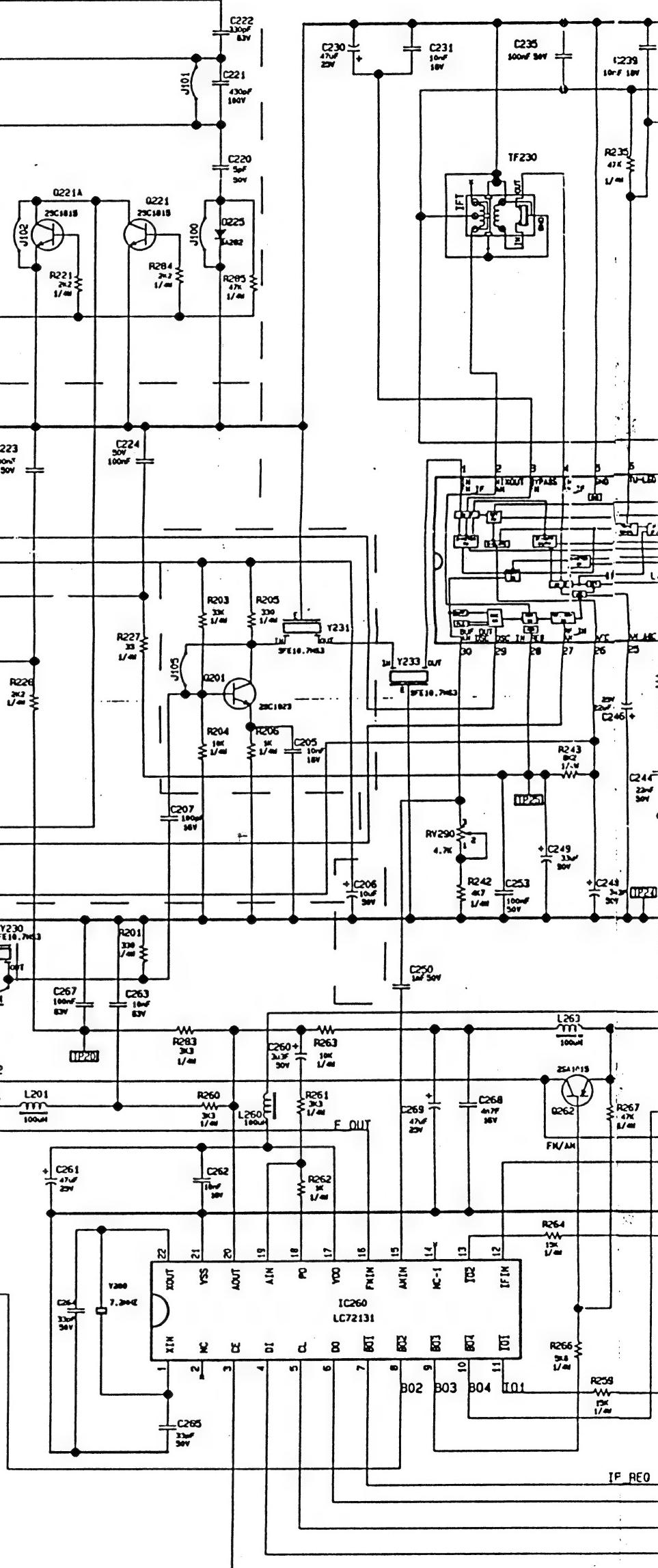
NOTES:

1. Unless otherwise specified:
A. All resistor values are in ohms.
1/4W
 2. Voltages are positive with respect to ground under no signal conditions and volume control minimum
 3. Replace transistors with type specified from replacement parts list
 4. Unless otherwise stated, all voltages taken in radio "on" position
 5. \times and Δ indicates critical safety components. Replace only with those specified from replacement parts list to maintain proper performances and safety of this unit.

JC260		PIN		
MODE		8	9	10
FH-STR	X	0	1	
FH-MONO	X	0	0	
MW	0	1		X
LW	1	1		X

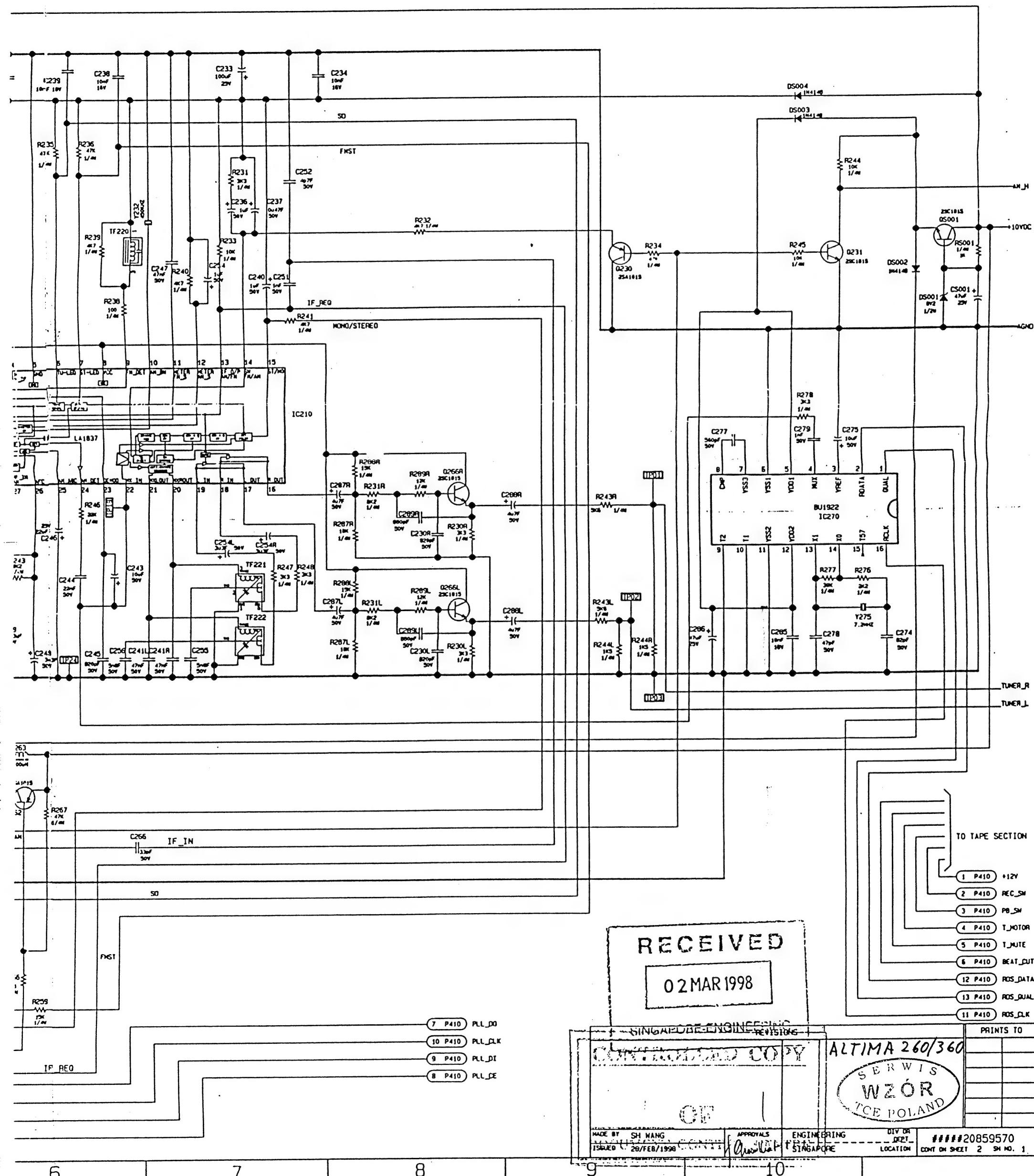
FOR EUROPE VERSIONS ONLY

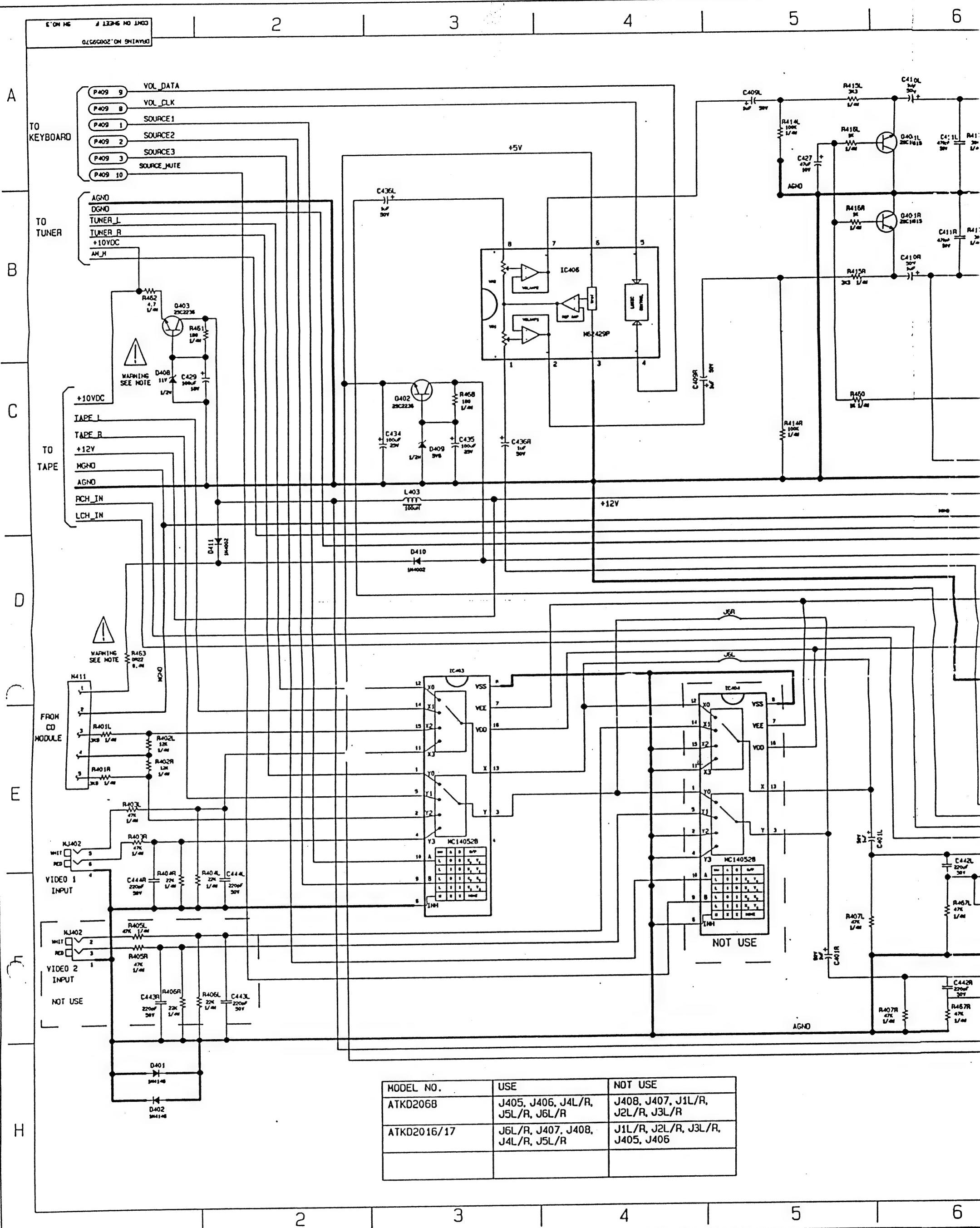
LAST REF DESIG: AVAILABLE:



APPLIED PRACTICES		SURFACES	TOLERANCES ON UNSHRODED PARTS		
		✓	FRACTIONS	DECIMALS	ANGLES
			+	+	+

TITLE
*****SCH ATKD2016 (TUNER)
FIRST MADE FOR ATKD2016 / 17/68 2016AMS1.SCH





UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:			
APPLIED PRACTICES	SURFACES	FRACTIONS	DECIMALS
TOLERANCES OF MANUFACTURED PARTS			
✓	+	+	+

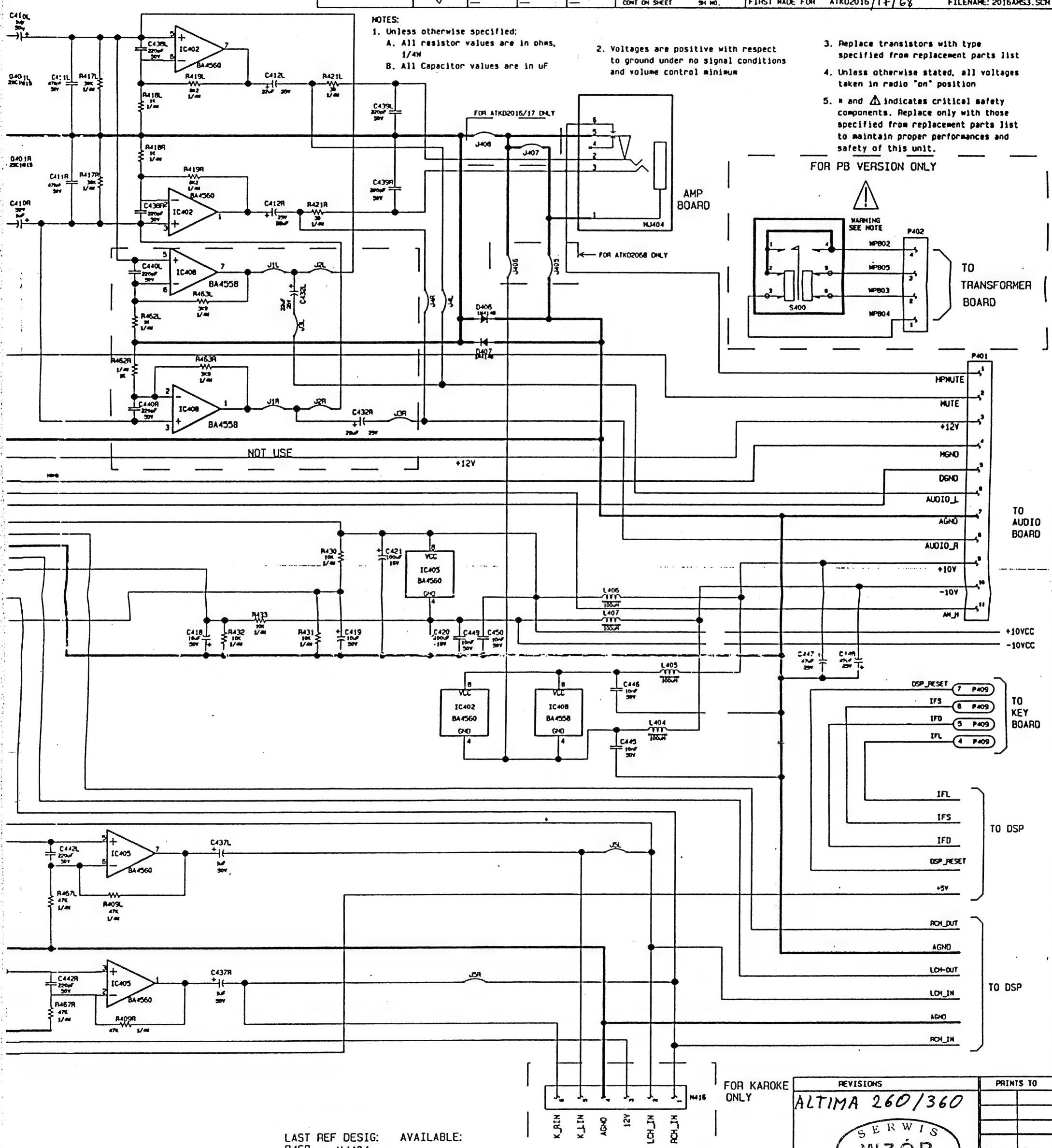
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SN NO.

TITLE

*****SCH ATKD2016 (AUDIO)

FIRST MADE FOR ATKD2016/17/68

FILENAME: 2016AMS3.SCH



LAST REF DESIG: AVAILABLE:
 R468 NJ404
 IC408 D411
 C437
 Q403
 P404

MADE BY TEH C.K
 ISSUED 26/FEB/1998

APPROVALS
Elmer Kat

ENGINEERING
 SINGAPORE

DIV DEPT
 LOCATION

REVISIONS	PRINTS TO
ALTIMA 260/360	
SERWIS WZÓR ICE POLAND	
####20859570	
CONT ON SHEET 4 SN NO. 3	

THOMSON ALTIMA 260 (ATKD 2016)
THOMSON ALTIMA 360 (ATKD 2017)

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6. t
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OTES:

COMPONENTS DESIGNATED BY THE SAFETY SYMBOL SHOULD, WHEN NECESSARY FOR REPAIR, BE REPLACED BY ORIGINAL PARTS, APPROVED BY THE MANUFACTURER. ONLY THEN CAN THE OPERATIONAL SAFETY BE GUARANTEED.



***	US/TCEC	EUR/PB/EA/UK/FE
F801/F802	4A, 125V	T3, 15A, 250V

	PB	EUR/US/TCEC/EA/UK/FE
TP801 - PIN 3 & 4	NOT CONNECTED	CONNECTED

REVISIONS

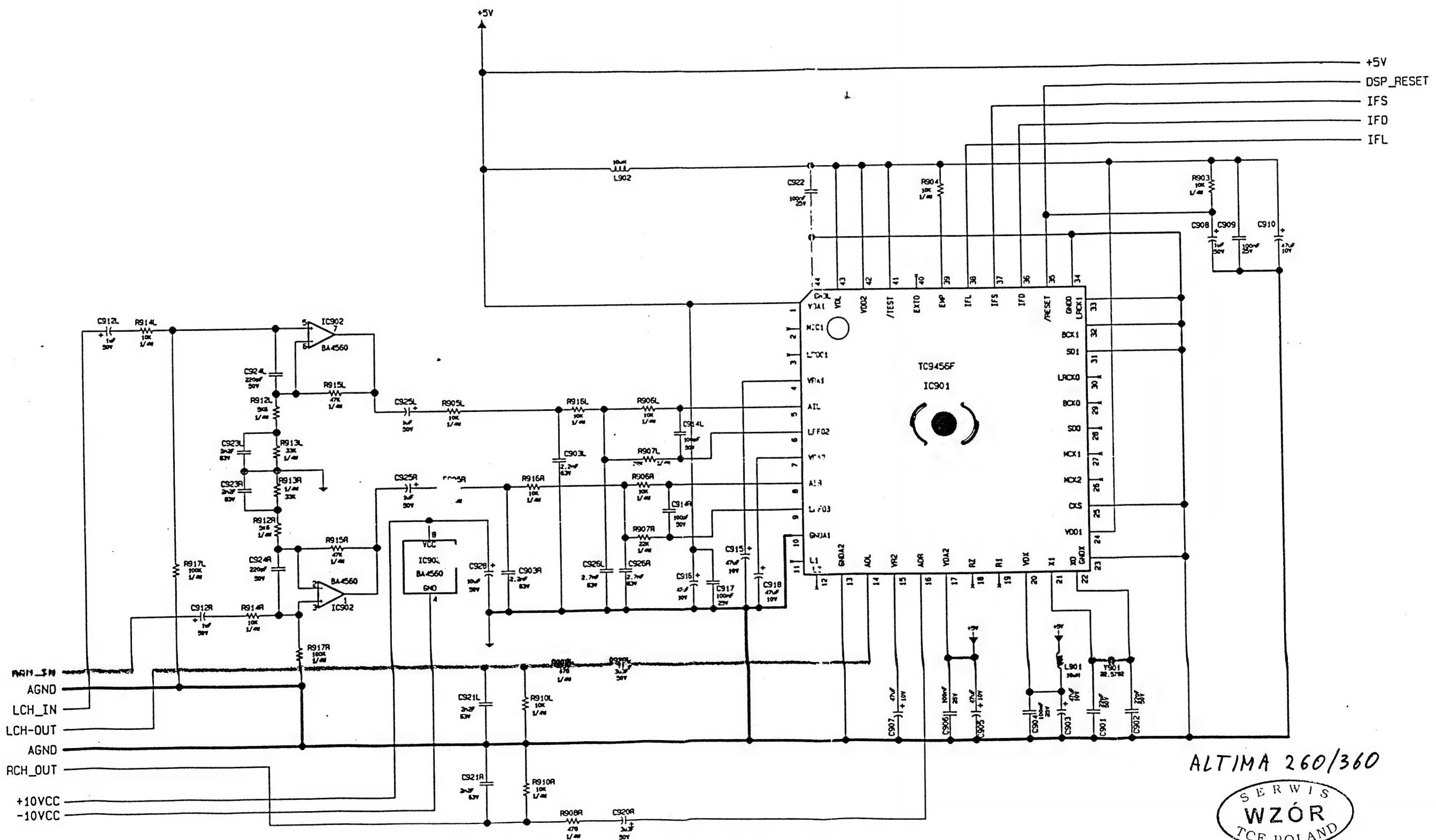
DE BY CK TEE
DUED 19TH FEB 1998

ENGINEERING DEPT OR
SINGAPORE LOCATION

*****#20823780
CONT ON SHEET F S/N NO. 1

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:-			
APPLIED PRACTICES	SURFACES	TOLERANCES ON INSCRIBED PLATES	
	✓	FRACTIONS	DECIMALS
	+	-	+

CONT'D ON SHEET



A

B

6

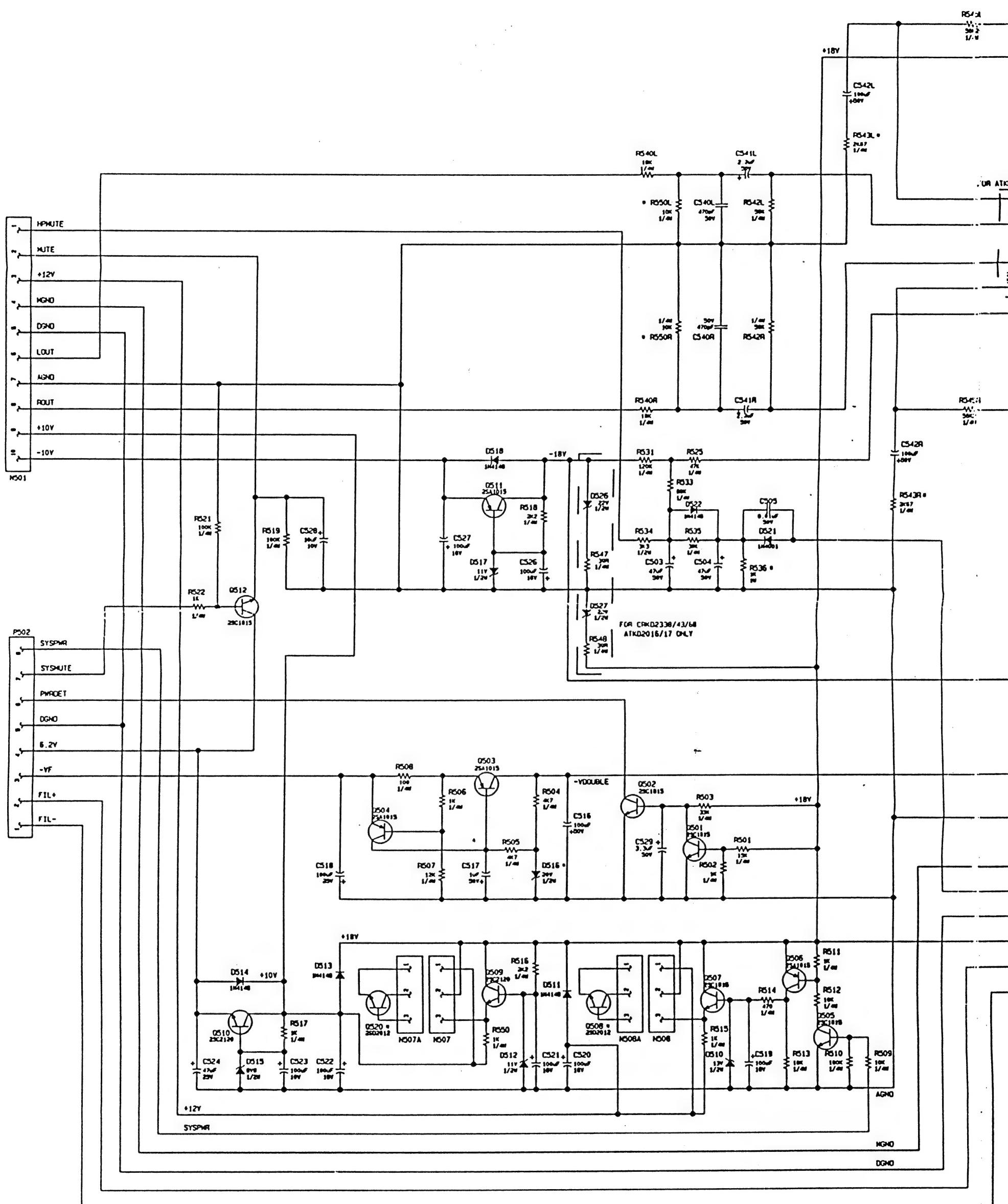
四

TO
KEY
BOARD

E

F

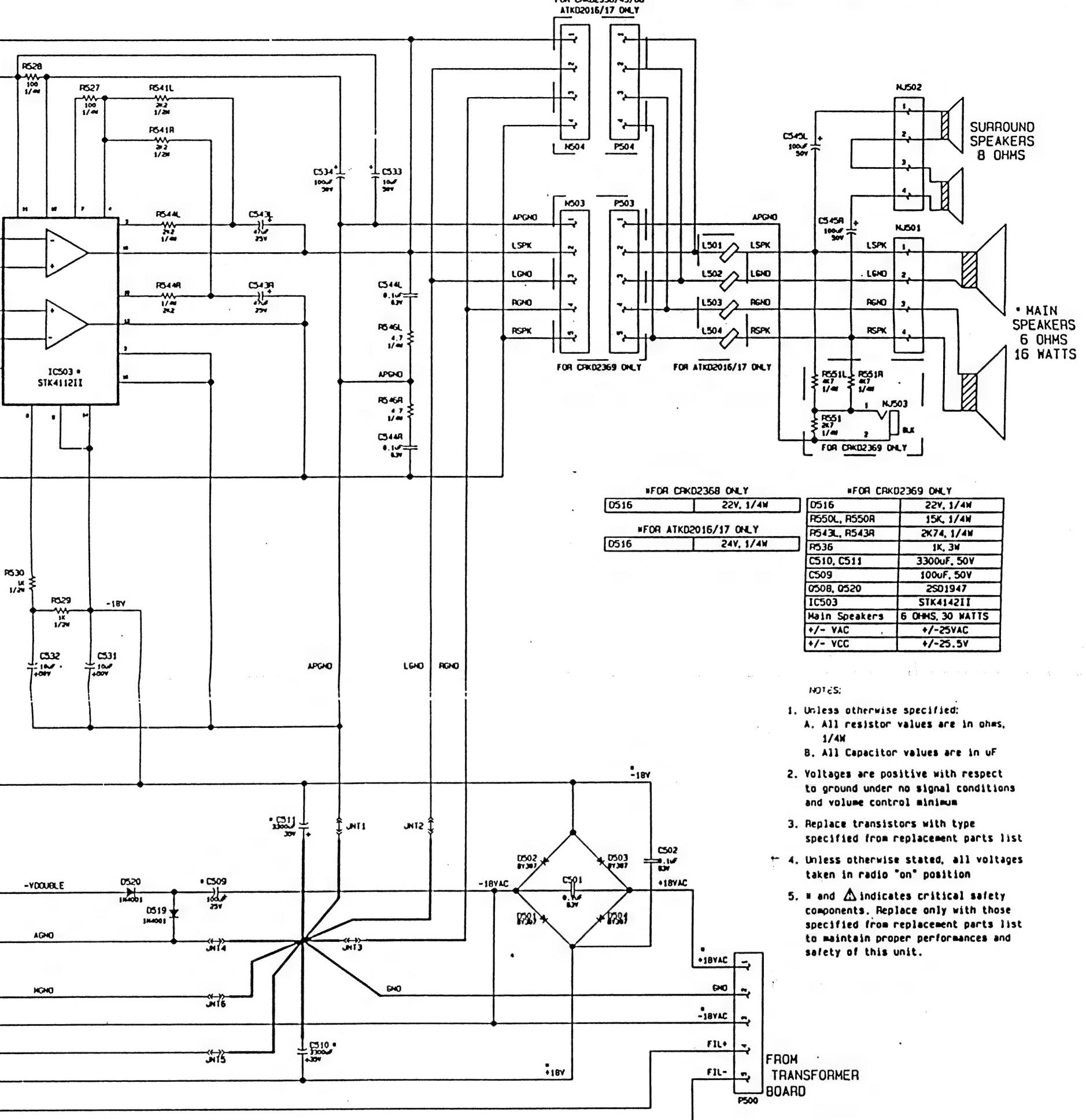
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APPLIED PRACTICES		SURFACES	TOLERANCES ON INDICATED PARTS			CONT ON SHEET	SH NO.	TITLE
FRACTIONS	DECIMALS	ANGLES	+	-	+			

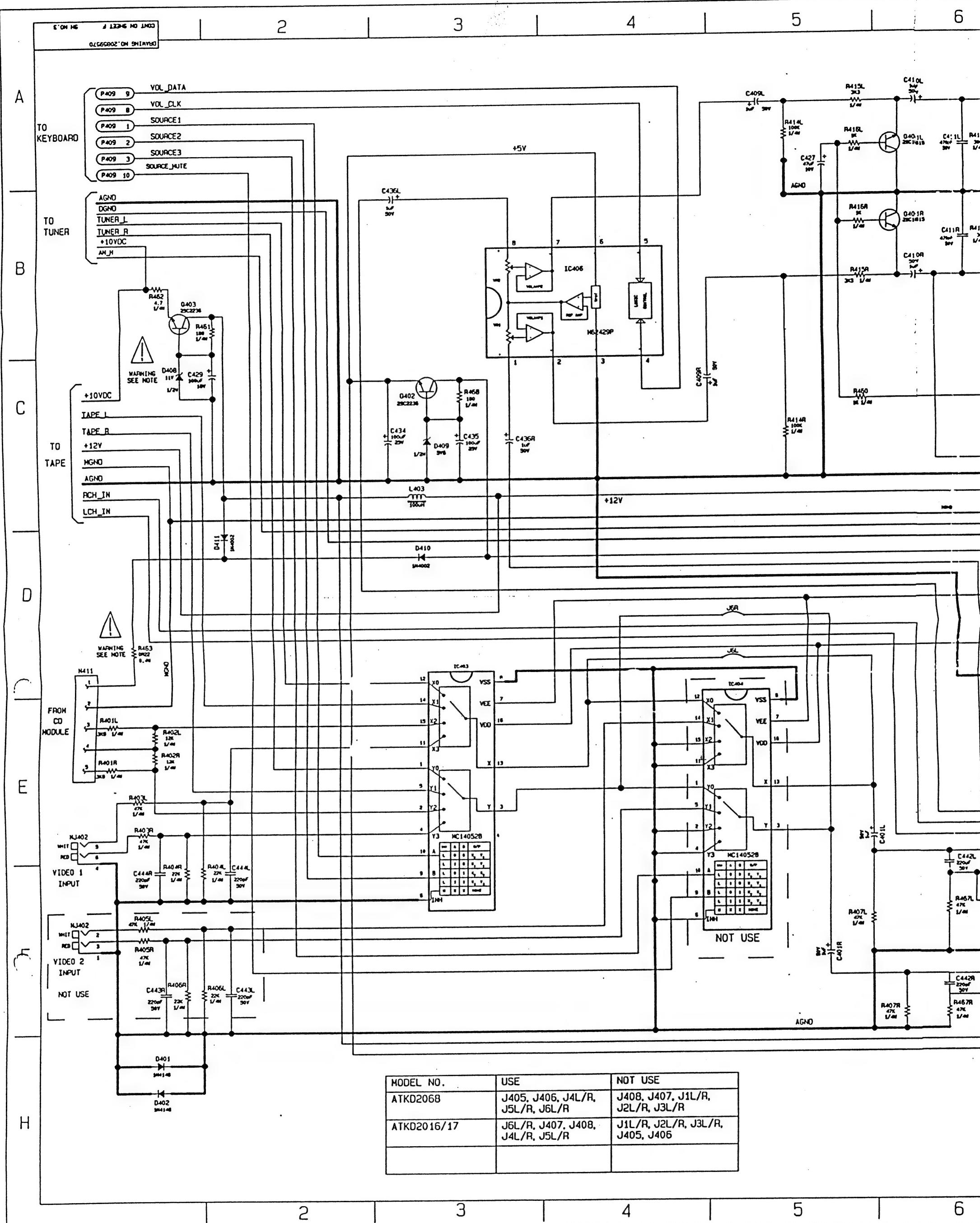
CRKD2338/43/68/69 AND
ATKD2016/17 AMPLIFIER
FIRST MADE FOR CRKD2338

SCH FILENAME: 2338AAS1.SCH



ALTIMA 260/360

REV. 03 FIDING MH 04/AUG/1997 (CONT')	REV. 03 FIDING MH 04/AUG/1997	REV. 01 JOSEPH GOH 17/DEC/1996	PRINTS TO		
R503 & R504 ADDED. R505 ADDED. R503 & L504 ADDED. R551 ADDED. R552 ADDED 2K7.	R534 CHANGE FROM 10K TO 50K. R535 ADDED 10K. R536 ADDED 1K. R537 ADDED 1K. R538 ADDED 1K. R539 ADDED 47uF. R540 ADDED 0.01uF. R541 ADDED 1400. R542, R526, R540, C530, C535, C537 & 0513 DELETED.	R503 CHANGE TO 10K TO 47K. R504 ADDED. R505 ADDED. R506 CHANGE FROM 10K TO 47K. R507 CHANGE FROM 10K TO 1K. R508 ADDED. R509 ADDED. R510 ADDED. R511 ADDED. R512 ADDED. R513 ADDED. R514 ADDED. R515 ADDED. R516 ADDED. R517 ADDED. R518 ADDED. R519 ADDED. R520 ADDED. R521 ADDED. R522 ADDED. R523 ADDED. R524 ADDED. R525 ADDED. R526 ADDED. R527 ADDED. R528 ADDED. R529 ADDED. R530 ADDED. R531 ADDED. R532 ADDED. R533 ADDED. R534 ADDED. R535 ADDED. R536 ADDED. R537 ADDED. R538 ADDED. R539 ADDED. R540 ADDED. R541 ADDED. R542 ADDED. R543 ADDED. R544 ADDED. R545 ADDED. R546 ADDED. R547 ADDED. R548 ADDED. R549 ADDED. R550 ADDED. R551 ADDED. R552 ADDED. R553 ADDED. R554 ADDED. R555 ADDED. R556 ADDED. R557 ADDED. R558 ADDED. 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R974 ADDED. R975 ADDED. R976 ADDED. R977 ADDED. R978 ADDED. R979 ADDED. R980 ADDED. R981 ADDED. R982 ADDED. R983 ADDED. R984 ADDED. R985 ADDED. R986 ADDED. R987 ADDED. R988 ADDED. R989 ADDED. R990 ADDED. R991 ADDED. R992 ADDED. R993 ADDED. R994 ADDED. R995 ADDED. R996 ADDED. R997 ADDED. R998 ADDED. R999 ADDED. R1000 ADDED.	REVISIONS	REVISIONS	REVISIONS
MADE BY JOSEPH GOH	APPROVALS	ENGINEERING DIV DEPT	PRINTS TO		
ISSUED		SINGAPORE	DM#20672820		
		LOCATION	CONT ON SHEET F SH NO. 1		



A

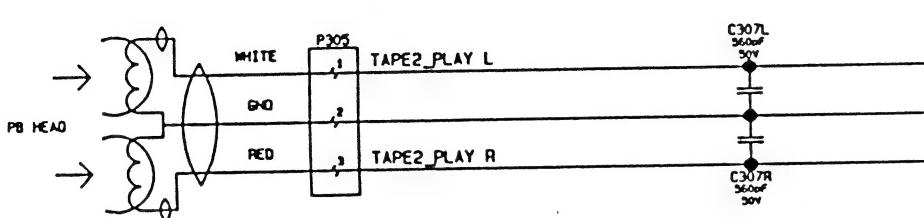
NOTES:

1. Unless otherwise specified:
 A. All resistor values are in ohms,
 $1/4W$
 B. All Capacitor values are in μF
2. Voltages are positive with respect
 to ground under no signal conditions
 and volume control minimum

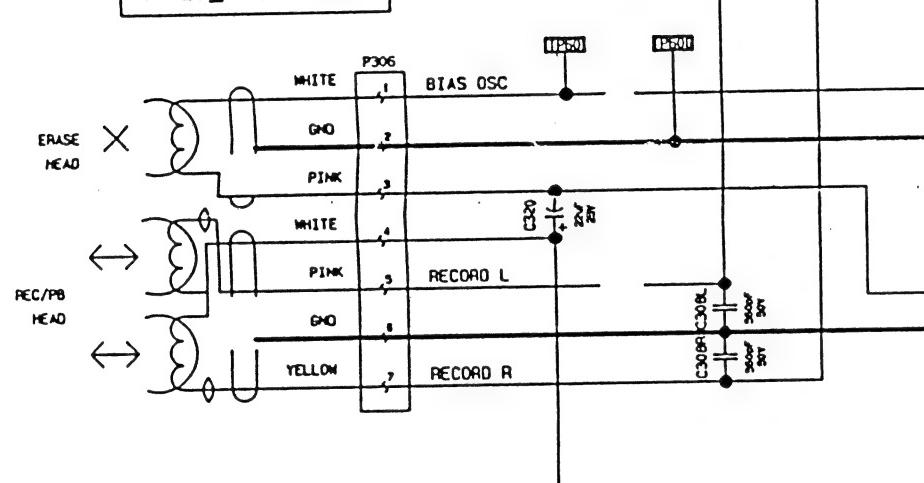
3. Replace transistors with type
 specified from replacement parts list
4. Unless otherwise stated, all voltages
 taken in radio "on" position
5. \times and Δ indicates critical safety
 components. Replace only with those
 specified from replacement parts list
 to maintain proper performances and
 safety of this unit.

LAST REF
 R349
 IC302
 C340
 0306
 L303
 D301
 P308

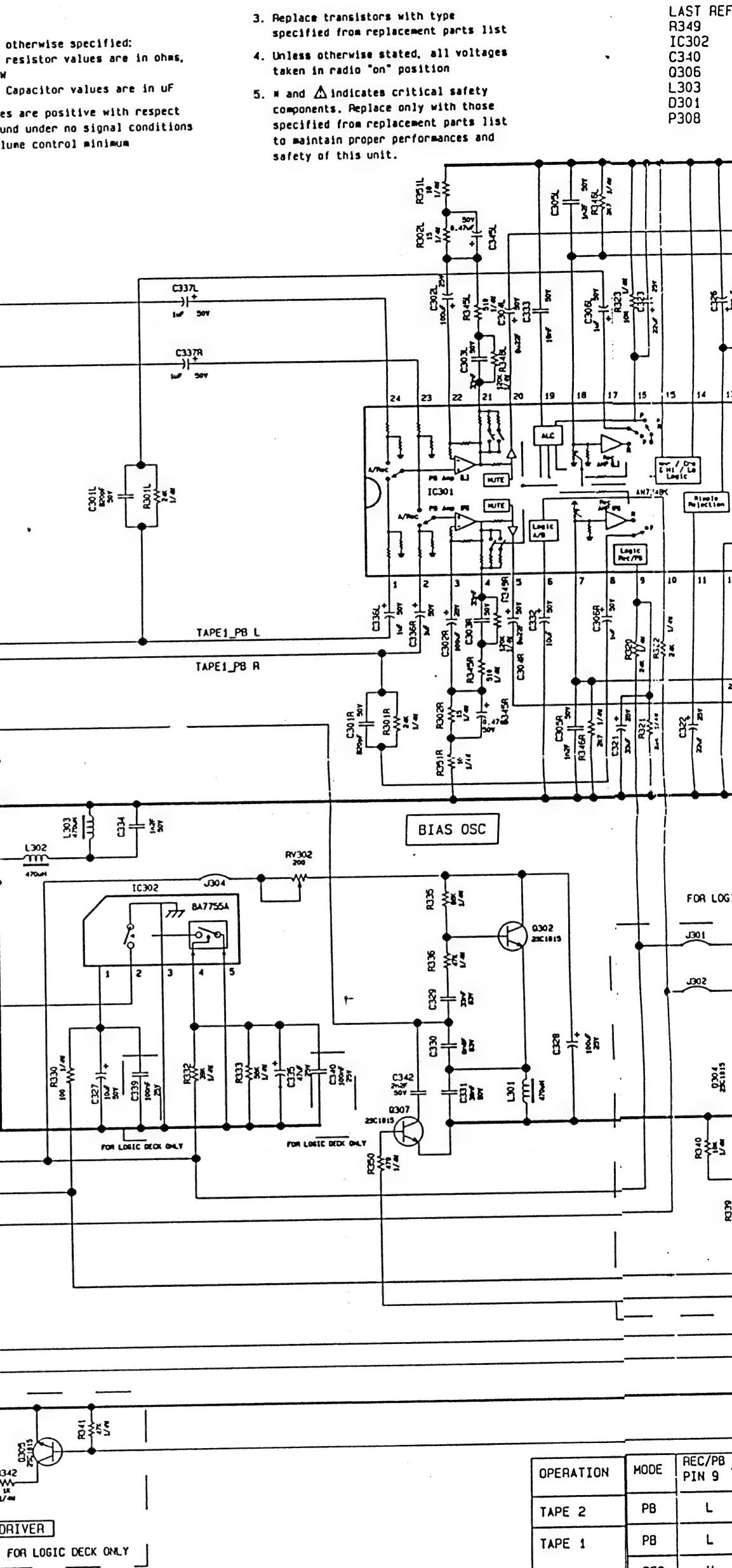
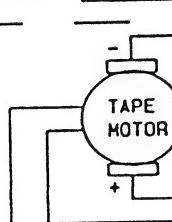
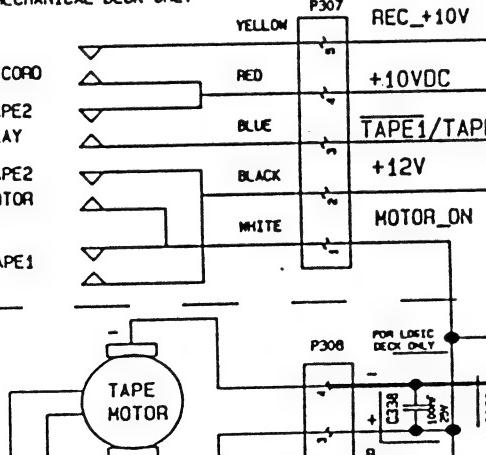
TAPE2 PB HEAD



TAPE1_REC/PB HEAD



MECHANICAL DECK ONLY



LAST REF DESIG: R349
IC302
C340
Q306
L303
D301
P308

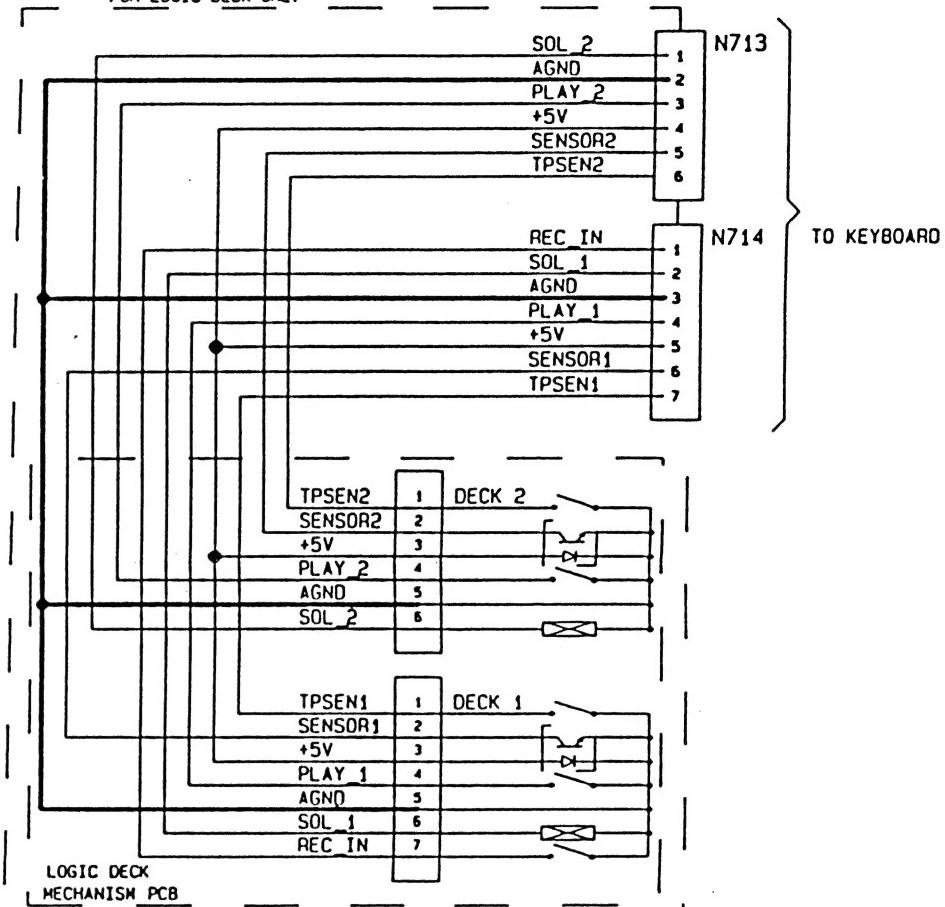
AVAILABLE:

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:-		
APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED PARTS
FRACTIONS	DECIMALS	ANGLES

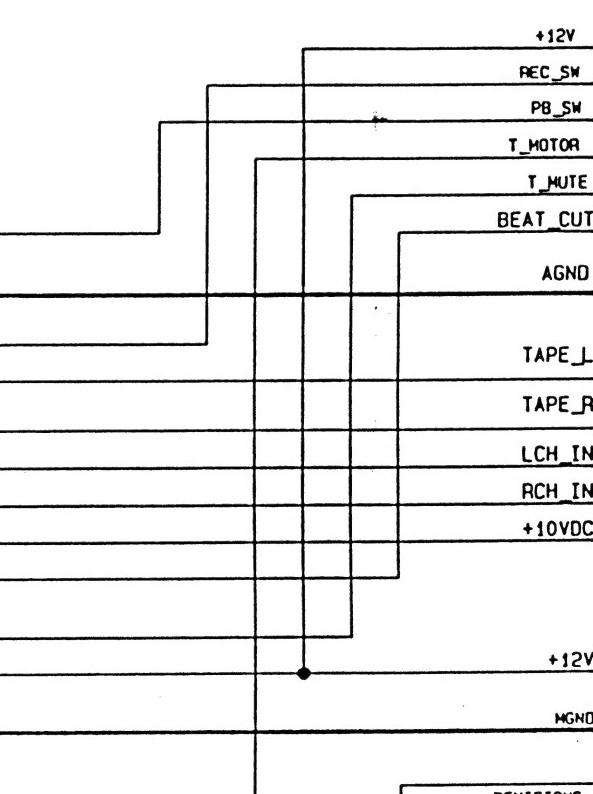
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TITLE: XXXXXSCH ATKD2016 (TAPE)
FIRST MADE FOR ATKD2016/17/68 FILENAME: 2016AMS2.SCH

FOR LOGIC DECK ONLY



LOGIC DECK MECHANISM PCB



TO MAIN TUNER SECTION

TO MAIN AUDIO SECTION

ALTIMA 260/360



MADE BY TEH C.K
ISSUED 26/FEB/1998

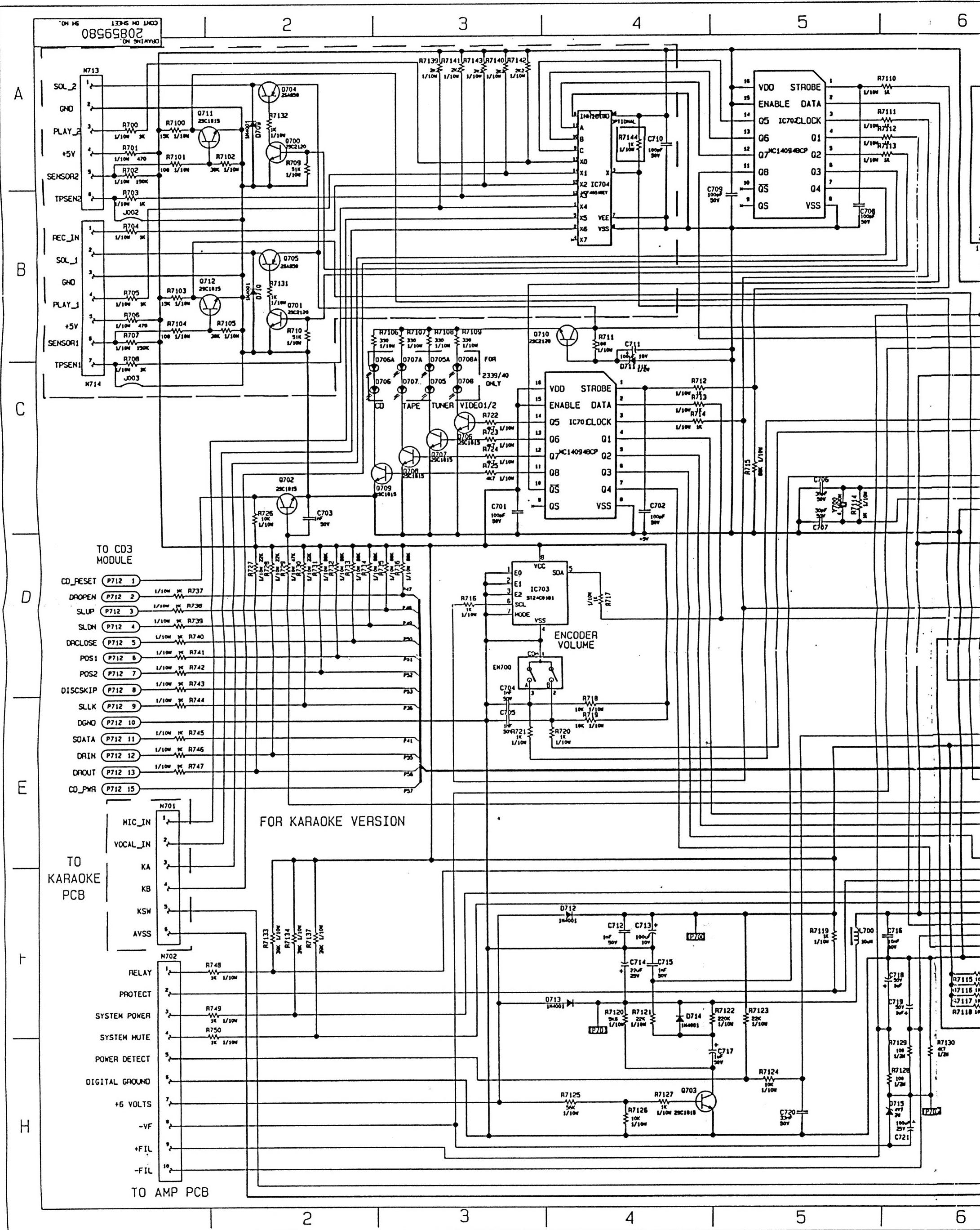
APPROVALS
[Signature]

ENGINEERING
SINGAPORE

DIV OR DEPT
LOCATION
####20859570
CONT ON SHEET 3 SH NO. 2

REVISIONS		PRINTS TO

MODE	REC/PB SW PIN 9	A/B SW PIN 10
PB	L	H
PB	L	L
REC	H	L



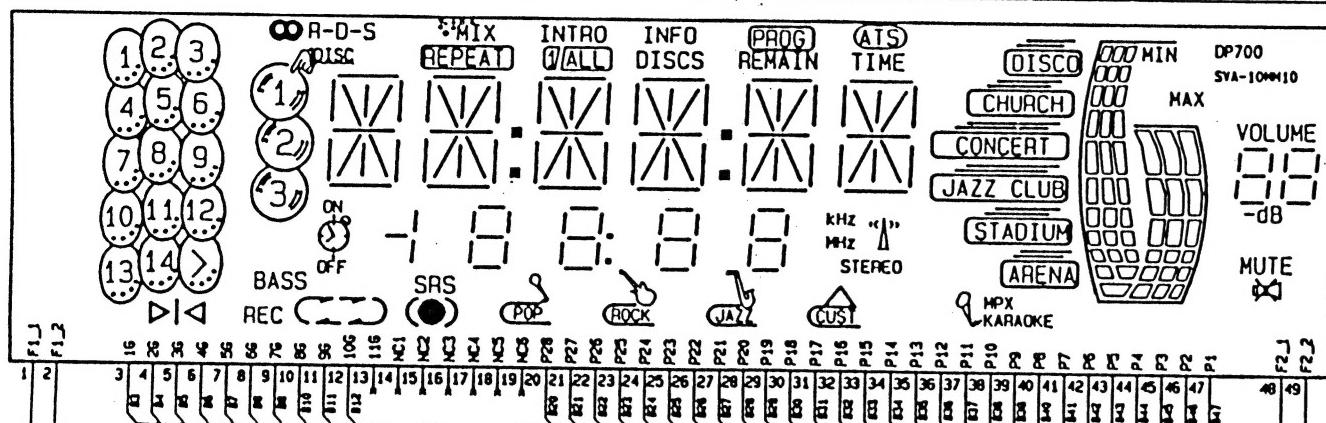
APPLIED PRACTICES		SURFACES		TOLERANCES ON MANUFACTURED PARTS		
FRACTIONS	DECIMALS	+	-	+	-	

CONT ON SHEET SH NO.

TITLE SCH ATKD2016/17/68 KEYBOARD

FIRST MADE FOR ATKD2016

FILENAME : 2016AKS1.SCH

NOT USED: SH703, 19, 27-29, 36-39
SH709LAST REF DESIG: C723
R7132
IC703
D716
D712
IR700
SH735

AVAILABLE: R753

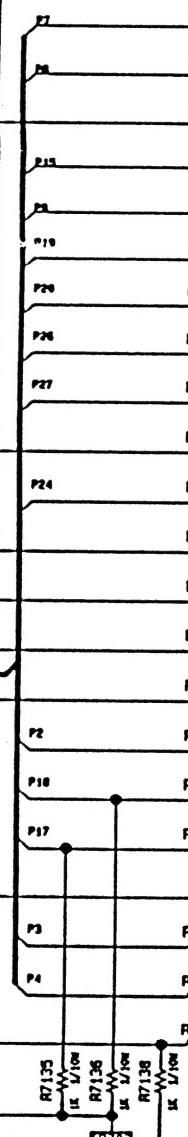
	D704	D716
MECH	—	—
LOGIC NO AR	●	●
LOGIC W AR	●	—

LOCATION	D700	D701	D702	D703
VERSION	ATKD2016	—	—	—
US	—	—	—	●
EUR	●	—	—	—
2 BAND	—	●	—	—
EUR	—	●	—	—
3 BAND	—	●	—	—
ASIA	●	●	—	—

NOTE : ● USED

TO MAIN PCB

- 1 P710 +12V
- 2 P710 REC_SW
- 3 P710 PB_SW
- 4 P710 T_MOTOR
- 5 P710 T_MUTE
- 6 P710 BEAT_CUT
- 7 P710 PLL_DO
- 8 P710 PLL_CE
- 9 P710 PLL_DI
- 10 P710 PLL_CLK
- 11 P710 ROS_CLK
- 12 P710 ROS_DATA
- 13 P710 ROS_DUAL
- 14 P709 SOURCE1
- 15 P709 SOURCE2
- 16 P709 SOURCE3
- 17 P709 IFL
- 18 P709 IFD
- 19 P709 IFS
- 20 P709 DSP_RESET
- 21 P709 VOL_CLK
- 22 P709 VOL_DATA
- 23 P709 SOURCE_MUTE



ALTIMA 260/360

REVISIONS

PRINTS TO



MADE BY TEH CK APPROVED BY ENGINEERING DIV OR DEPT
ISSUED 27/FEB/1998 SINGAPORE LOCATION # ## # 20859580
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CONTROLLED COPY

Appendix 3

General views of the power supply layout circuitry for
'Thomson' Home Audio System (Models: Altima 260 and Altima 360)

- (1) Fuse (F801)
(2) Fuse (F802)

